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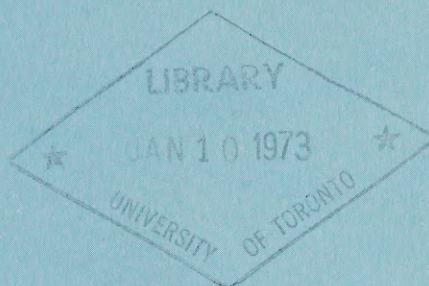
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DEPARTMENT OF THE ENVIRONMENT  
Ottawa



# GULF OF ST. LAWRENCE

November 18 to November 28, 1971

No. 1

1972 Data Record Series

<sup>CANADA.</sup>  
(Canadian) Oceanographic Data Centre

Programmed by the  
Canadian Committee on Oceanography

1972

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*The Canadian Oceanographic Data Centre, Dept. of the Environment, 615 Booth Street, Ottawa*

Catalogue No. M58-1/1972-1

Information Canada

Ottawa

1972



# **GULF OF ST. LAWRENCE**

**November 18 to November 28, 1971**

**CODC Reference 1810-71038**

**No. 1**

**1972 Data Record Series**

**Canadian Oceanographic Data Centre**

**615 Booth St., Ottawa, Canada**

**Programmed by the Canadian Committee on Oceanography**





DEPARTMENT OF THE ENVIRONMENT

GULF OF ST. LAWRENCE

Ship:	CNAV "Sackville"
Local cruise designation:	BI 71-038
CODC cruise reference no:	1810-71038
Cruise period:	Nov. 18 - Nov. 28, 1971
Officer-in-Charge:	T.R. Foote
Observers:	F.D. Ewing E.A. Lewis P.B. Abriel

ATLANTIC OCEANOGRAPHIC LABORATORY

Bedford Institute of Oceanography  
Dartmouth, N.S.





## SECTION I

Description of data collection procedures





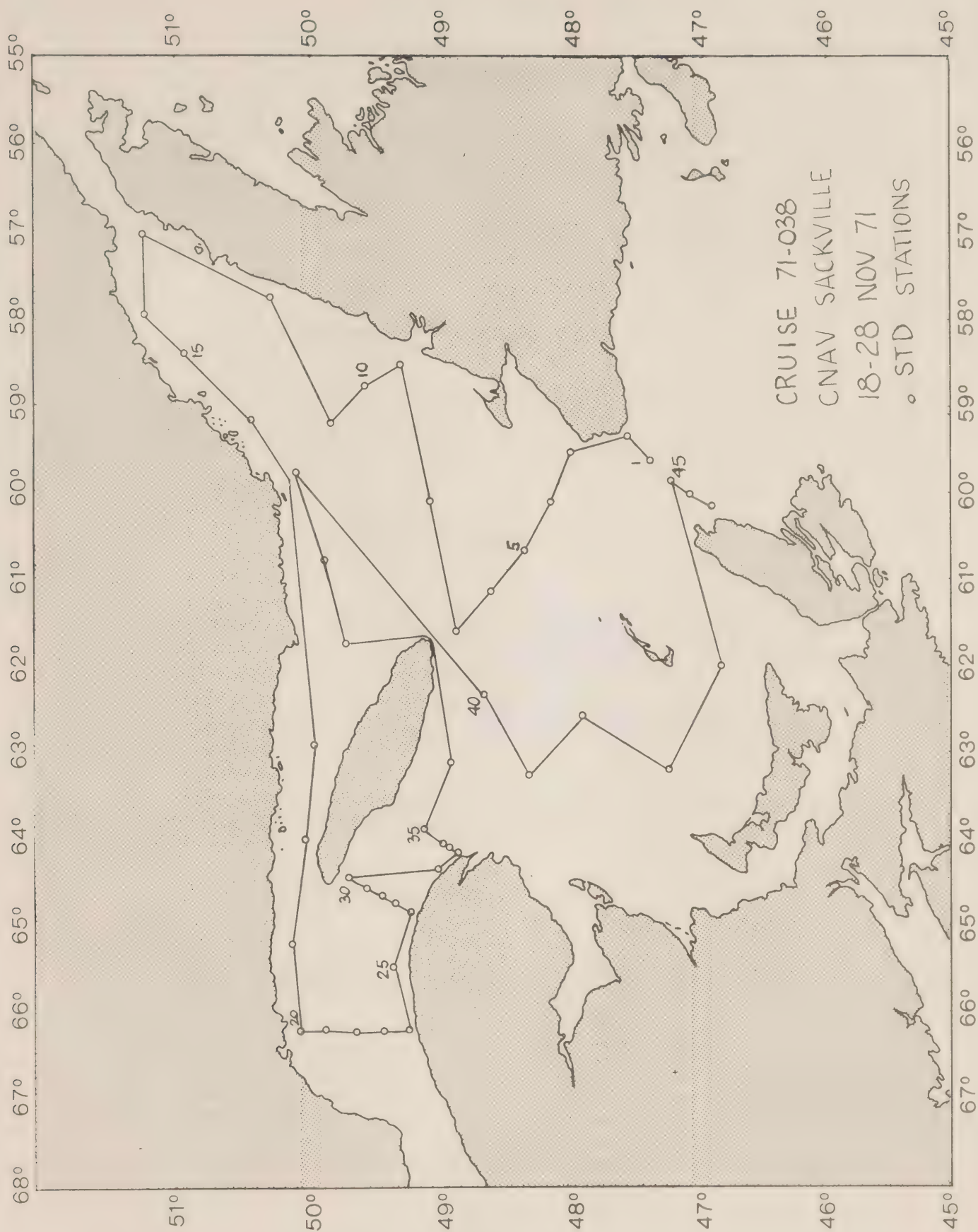
"SACKVILLE"



Fisheries Research Board









## INTRODUCTION

The purpose of the cruise was to sample temperature and salinities in the upper 250 metres at representative stations throughout the Gulf of St. Lawrence, and thus to provide the Temperature-Salinity data with which the Ice Forecast Central Office of the Department of the Environment prepares its ice forecast for the 1971-72 winter season in the Gulf.

## EXTRACT OF CRUISE LOG

Depart     Dartmouth, N.S. - 18 November, 1971

Return     Dartmouth, N.S. - 28 November, 1971

## OBSERVATIONAL PROCEDURES

Temperature and salinity data were collected at 47 stations throughout the Gulf of St. Lawrence with the use of the Guildline STD system. The values were manually digitized from the recording charts at the reported depth levels.

Water samples for nutrient analysis were collected by personnel from McGill University but are not included in this data record.

Weather observations were made at each oceanographic station by the ship's officers.

## PERSONNEL

### At sea:

T.R. Foote (Officer-in-Charge)	AOL, Dartmouth
F.D. Ewing	AOL, Dartmouth
E.A. Lewis	AOL, Dartmouth
P.B. Abriel	AOL, Dartmouth
D. Dunbar	McGill University, Montreal
M. Slaney	McGill University, Montreal
H. Bureau (Miss)	Marine Sciences Directorate, Ottawa
B. Jones	Ice Central Office, Ottawa

### Data Analyses:

Compilation of data - T.R. Foote





## SECTION II

Description of the machine-generated data record





## DESCRIPTION OF THE DATA RECORDS

### GENERAL REMARKS

This Data Report contains oceanographic station data for the cruise indicated on the title page. The data have been edited and processed by CODC's OCEANS IV program, and are archived in our Oceanographic Station Data File. Copies of the data can be provided in computer-compatible form on card or magnetic tape. A description of the OCEANS IV program and/or an outline of available output formats are available upon request. (OCEANS IV; A Processing, Archiving and Retrieval System for Oceanographic Station Data).

Most entries in the observed portion of the Data Records can be accompanied by an error code or doubtful marker. Errors are indicated only if the entry is based on duplicate or multiplicate measurements and are coded A through I in multiples of the last digit shown in the printout (see Table 6).

The Data Records are broken into three "blocks": the station master, observed data, and interpolated data blocks. The station master contains the identification, position, time and bottom depth of the station plus meteorological data and some general information. In the observed data block the temperature and salinity observations and derived parameters such as sigma-t, specific volume anomaly, etc. are given. It may be followed or replaced by a second group of observed data containing all observed parameters but no derived quantities. The third block contains interpolated values of all parameters at specified depth or pressure levels. It also can be replaced or followed by a second group of interpolated data containing all observed parameters but no derived quantities. This data block is included in the listing only if specifically requested by the data originator.

Interpolations can be carried out to standard oceanographic depth or pressure levels (see Table 7) or to depth or pressure levels specified by the data originator. Both observed and derived parameters are interpolated individually, using the nearest two observations (or calculated values) above and below the desired interpolation levels. Two hyperbola are fitted to these points and a weighted mean is determined as described by Reiniger and Ross (1968)\* or by Rattray (1962).\*\* Linear interpolation is used in all cases when fewer than two points above and two below the required level are available. On page 1 the interpolation technique used is specified (if applicable).

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\*Deep Sea Res., 15, p 185 - 193

\*\*Deep Sea Res., 9, p 25 - 37

## EXPLANATION OF DATA RECORD HEADINGS

Insignificant trailing digits of any parameter can be left blank on the data entry forms, but will be shown as zeros in the listings of all data except temperature and salinity.

## STATION MASTER HEADINGS

1. CRUISE NUMBER			2. STATION NUMBER		
3. LAT	7. YEAR	11. WAVE-P/H	15. WND-DIR	19. WW	21. COUN
4. LONG	8. MONTH	12. SWEL-P/H	16. WND-SPD	20. CLD-A	22. INST
5. DEPTH	9. DAY	13. SWEL-D	17. AIR-TEMP		23. RESTR
6. MARSD SQ	10. H/M	14. BARO	18. WET BLB		24. UNAS

(1) CRUISE NUMBER	The first two digits indicate the year of the first station of the cruise; the next three digits are assigned consecutively by each institute commencing at 001 each year.
(2) CONSECUTIVE STATION NUMBER	Indicates the chronological order in which the stations are occupied.
(3) LATITUDE	Position of the platform at the sampling time in degrees and minutes with two decimals. Non-observed decimals are printed as zero's; e.g. observed latitudes of N36°25' and N36°25.00' will both be printed as N36 25.00.
(4) LONGITUDE	
(5) DEPTH	Bottom depth in metres with one decimal; adjusted for soundspeed as indicated on page 1.
(6) MARSDEN SQUARE	A code to designate the ten-degree square in which the samples have been taken (Figure 1).
(7) YEAR	Time-date group defining the moment at which the shallowest level is observed in GMT (Greenwich Mean Time).
(8) MONTH	
(9) DAY	
(10) HOUR and MINUTE	
(11) WAVE PERIOD and HEIGHT	Sea wave period in seconds (2 digits), followed by wave height (2 digits) in multiples of 0.5 metres; e.g. a wave height of 3 m is coded as 06.
(12) SWELL PERIOD and HEIGHT	See explanation of (11)
(13) SWELL DIRECTION	Direction <i>from</i> which swell waves are coming. A calm is indicated by 000, waves from due north by 360.
(14) BAROMETER	Air pressure in mbar with one decimal. Corrections for barometer height and/or outside air temperature have been applied as indicated on page 1.
(15) WIND DIRECTION	Direction <i>from</i> which the wind is blowing in degrees. A calm is indicated by 000, wind from due north by 360.
(16) WIND SPEED	Wind speed is given in m/sec; original observations made on the Beaufort scale are converted to metres per second according to the scale given in Table 1.
(17) AIR TEMPERATURE	In degrees Celsius with one decimal.
(18) WET BULB	
(19) WW CODE	Present weather in WMO code 4677 (Table 2)
(20) CLOUD AMOUNT	Sky coverage in eighths according to WMO code 2700 (Table 3)
(21) COUNTRY	Country in which the institute responsible for collecting the data is situated (Table 4).

- (22) INSTITUTE A code identifying the institute responsible for collecting the data (Table 5).
- (23) RESTRICTION If desired, a restriction can be placed on the data by inserting a numerical code. Blank or zero stand for unrestricted and non proprietary data.
- (24) UNASSIGNED In this field any alphanumeric information, entered in the corresponding field on the Data Summary form used to submit the data to CODC, is reproduced. It can, for example, be used to indicate an arbitrary station coding.

#### OBSERVED OR INTERPOLATED DATA;

- |         |          |                                  |          |          |
|---------|----------|----------------------------------|----------|----------|
| 1. GMT  | 2. DEPTH | 3. PRESS                         | 4. TEMP  | 5. POT.T |
| 6. SAL  | 7. SGMT  | 8. SGPT                          | 9. SOUND | 10. GEOA |
| 11. CHI | 12. SVA  | 13. . . . . .CHEMICAL PARAMETERS |          |          |

(1) GMT Time in GMT of in situ observation, e.g. time of reversal of a reversing thermometer. When a multiple cast is initiated prior to and continued after midnight, time may be indicated as 24, 25, 26, etc., hours plus up to 59 minutes. Note that the station date is determined by the date of the shallowest observed level.

(2) DEPTH Sample depth in metres with one decimal.

(3) PRESSURE Pressure at the sampling level, in dbar with one decimal, with reference to a surface pressure of zero. It may be followed by an "M" or a "C" to indicate whether pressure is measured or calculated from a depth observation.

(4) TEMPERATURE In degrees Celsius with three decimals, measured as indicated on page 1. It can be followed by one of the alphabetic doubtful data markers and error codes shown in Table 6, or by a "P" to indicate temperatures measured with an in situ probe.

(5) POTENTIAL TEMPERATURE Potential temperature is the temperature that a water sample would attain if raised adiabatically to the sea surface. It is defined by:

$$\Theta_i = T_i + \int_0^{P_i} \left( \frac{\partial T}{\partial p} \right)_\eta dp$$

where  $T_i$  is the in situ temperature,  $\left( \frac{\partial T}{\partial p} \right)_\eta$  the derivate of temperature with respect to pressure under constant entropy, and  $P_i$  the pressure at the observed level.  $\Theta_i$  is given in degrees Celsius with three decimals.

(6) SALINITY In parts per thousand (g/kg) with three decimals, measured as indicated on page 1. It may be followed by the alphabetic error codes shown in Table 6, or by a "P" to indicate salinities measured with an in situ probe.

(7) SIGMA-T The specific gravity anomaly, sigma-t, of seawater at atmospheric pressure is defined by:

$$\sigma_t = 1000 \times (\rho_{s,t,p=0} - 1.0)$$

where  $\rho_{s,t,p=0}$  is the specific gravity of seawater as a function of salinity S, temperature T, and sea surface pressure. Sigma-t is given with two decimals; e.g. an entry of 2485 corresponds to  $\sigma_t = 24.85$  or  $\rho = 1.024,85$ .



- (8) SIGMA POTENTIAL TEMPERATURE See definition of sigma-t, but substitute the potential temperature  $\Theta$  for the in situ temperature  $T$ .
- (9) SOUNDSPEED Soundspeed is reported in m/sec with one decimal. It may be followed by an "M" or a "C" to indicate whether it is measured directly or calculated as a function of temperature, salinity and pressure using Wilson's equations.
- (10) GEOPOTENTIAL ANOMALY Geopotential anomaly is defined as:
- $$\Delta D = \int_0^p \delta \, dp$$
- where  $\delta$  is specific volume anomaly. The integration over pressure is carried out either down to the pressure at the required depth level, or down to the required pressure level, as specified on page 1. The geopotential anomaly is expressed in dynamic metres ( $10^5$  ergs/gram) with three decimals: a value of 0215 corresponds to  $\Delta D = 0.215$  dynamic metres.
- (11) POTENTIAL ENERGY ANOMALY (CHI) Potential energy anomaly is defined by:
- $$\chi_\eta = \frac{1}{g} \int_0^{P(z_n)} p \, \delta \, dp$$
- where  $g$  is local gravity as a function of latitude and depth,  $p$  is pressure and  $\delta$  the specific volume anomaly. It is expressed in units of  $10^8$  erg/cm<sup>2</sup> and recorded with two decimals, e.g. a value of 11644 corresponds to  $\chi = 116.44 \times 10^8$  erg/cm<sup>2</sup>.
- (12) SPECIFIC VOLUME ANOMALY The specific volume anomaly is defined by:
- $$\delta_{stp} = \alpha_{stp} - \alpha_{35, 0, p}$$
- where  $\alpha_{stp}$  and  $\alpha_{35, 0, p}$  are the specific volume at the in situ salinity, temperature and pressure, or a standard salinity of 35.00/00, standard temperature of 0°C, and in situ pressure respectively,  $\delta$  is expressed in  $10^5$  ml/gr with one decimal place; e.g. a reading of 1234 corresponds to  $\delta = 123.4 \times 10^{-5}$  ml/gr.
- (13) OXY Dissolved oxygen in ml/l with two decimals.
- (14) PO<sub>4</sub> Phosphate-phosphorus in  $\mu$ g-atoms per litre with two decimals.
- (15) T-P Total phosphorus in  $\mu$ g-atom per litre with two decimals.
- (16) NO<sub>2</sub> Nitrate-nitrogen in  $\mu$ g-atom per litre with two decimals.
- (17) NO<sub>3</sub> Nitrate-nitrogen in  $\mu$ g-atom per litre with one decimal.
- (18) SI Silicate-silicon in  $\mu$ g-atom per litre with one decimal.
- (19) pH The pH value with three decimals.
- (20) F Fluoride in mg/l with two decimals.
- (21) D.C. Dissolved organic carbon in mg/l with two decimals.
- (22) P.C. Particulate organic carbon in mg/m<sup>3</sup> with zero decimals.
- (23) T ALK Total alkalinity in micro-equivalents per litre with zero decimals.
- (24) C ALK Carbonate alkalinity in micro-equivalents per litre with zero decimals.
- (25) NH<sub>3</sub> Ammonia in micrograms NH<sub>3</sub> per litre with two decimals.

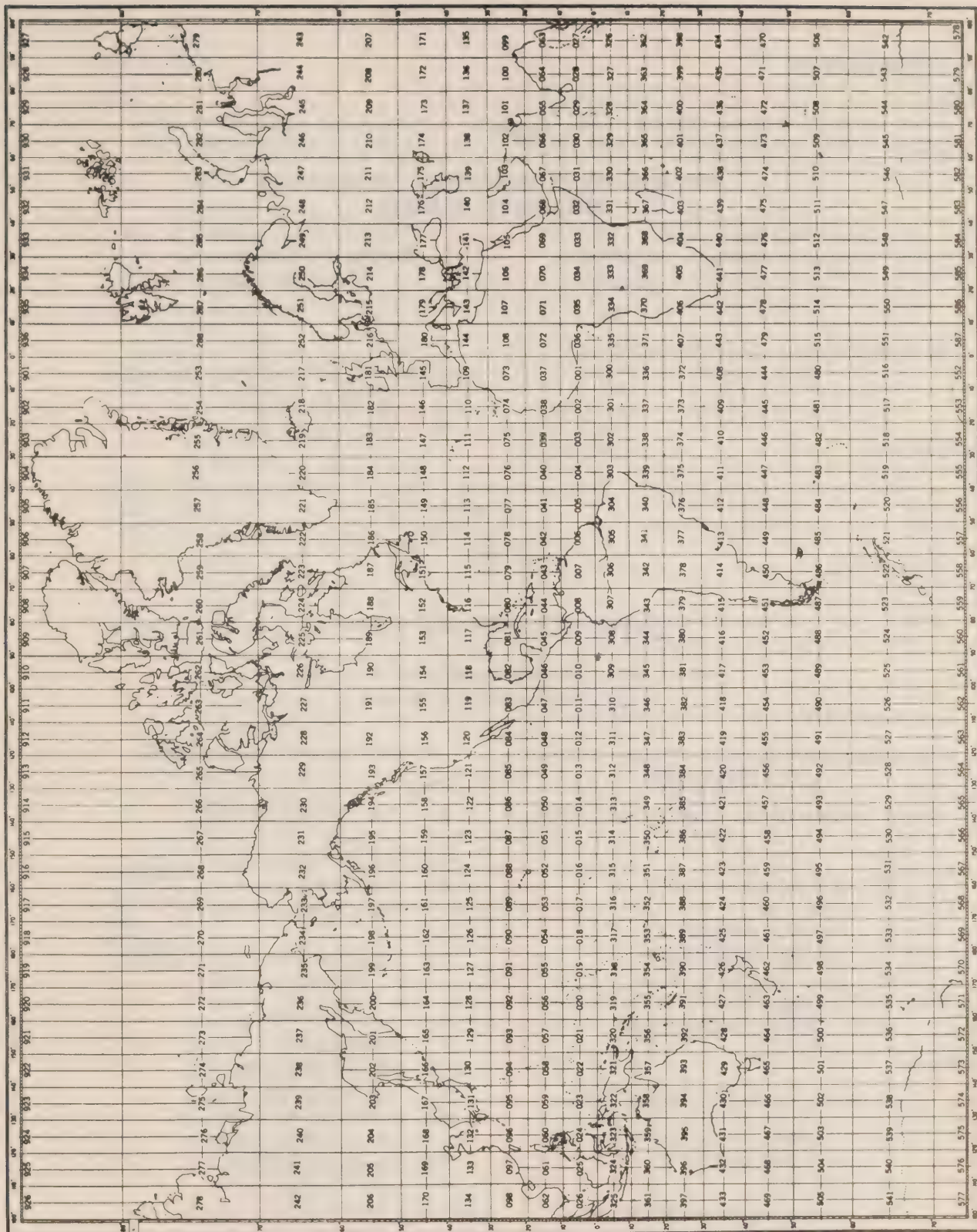


FIG. 1

MARS DEN SQUARE CHART

## CODE TABLES

TABLE 1

CONVERSION OF BEAUFORT ESTIMATE TO  
WINDSPEED IN M/SEC

Beaufort	Windspeed in m/sec	Beaufort	Windspeed in m/sec
0	00	7	15
1	01	8	19
2	02	9	22
3	04	10	26
4	07	11	30
5	09	12	34
6	12		

TABLE 2

## PRESENT WEATHER (ww — Code)

Use the highest code figure applicable except that 17  
has preference over 20 to 49 inclusive.

00—49 NO PRECIPITATION AT SHIP AT TIME  
OF OBSERVATION

## 00—03 CHANGE OF SKY DURING PAST HOUR

## Code

- 00 Cloud development not observable
- 01 Clouds dissolving or becoming less developed
- 02 State of sky on the whole unchanged
- 03 Clouds generally forming or developing

## 04—09 SMOKE, HAZE, SAND OR DUST

- 04 Visibility reduced by smoke (not ship's smoke)
- 05 Dry Haze
- 06 Widespread dust suspended in air
- 07 Blowing spray at ship
- 08 Dust whirls in past hour (not for marine use)
- 09 Dust or sandstorm in sight, or at ship in past hour

## 10—12 MIST AND SHALLOW FOG

## Code

- 10 Mist (visibility 1 100 yds. or more)
  - 11 Shallow fog in patches
  - 12 Shallow fog—more or less continuous
- Fog not deeper than 33 ft.*

13—16 PHENOMENA WITHIN SIGHT  
BUT NOT AT SHIP

- 13 Lightning visible, no thunder heard
- 14 Precipitation in sight, not reaching surface
- 15 Precip. beyond 3 naut. miles, reaching surface
- 16 Precip. within 3 naut. miles, reaching surface



Table 2 (cont'd.)

Code		Code		Code	
17-19 THUNDER, SQUALLS, FUNNEL CLOUDS		Sky Visible	Visibility less than 1100 yards of time of observation	Sky Invisible	
17	Thunder at time of obsn. — no precip. at ship	42	Fog, has become thinner in past hour	43	
18	Squalls (no precip.) in past hour or at time of obsn.	44	Fog, no change in past hour	45	
19	Funnel cloud(s) seen in past hour or at time of obsn.	46	Fog, has begun or thickened in past hour	47	
		48	Fog, depositing rime	49	
20-29 PHENOMENA IN PAST HOUR BUT NOT AT TIME OF OBSN.		50-99 PRECIPITATION AT SHIP AT TIME OF OBSERVATION			
		50-59 DRIZZLE			
20	Drizzle (not freezing) or snow grains	Intermittent		Continuous	
21	Rain (not freezing)	50	Slight Drizzle	51	
22	Snow	52	Moderate Drizzle	53	
23	Rain and snow, or ice pellets	54	Heavy Drizzle	55	
24	Freezing drizzle or freezing rain	Slight		Moderate or Heavy	
25	Shower(s) of rain	56	Freezing drizzle	57	
26	Shower(s) of snow, or of rain and snow mixed	58	Drizzle and rain mixed	59	
27	Shower(s) of hail*, or of rain and hail* mixed	60-69 RAIN (NOT FALLING AS SHOWERS)			
28	Fog (in past hour but not at time of observation)	Intermittent		Continuous	
29	Thunderstorm, with or without precipitation	60	Slight rain	61	
		62	Moderate rain	63	
		64	Heavy rain	65	
		Slight		Moderate or Heavy	
		66	Freezing rain	67	
		68	Rain or drizzle with snow	69	
*Includes hail, ice pellets, or snow pellets		70-79 SOLID PRECIPITATION NOT FALLING AS SHOWERS			
30-39 (Not likely to be used in ship reports)		Intermittent		Continuous	
Slight or Moderate	Heavy	70	Slight snow in flakes	71	
30	Duststorm or sandstorm, decreasing	72	Moderate snow in flakes	73	
31	Duststorm or sandstorm, unchanging	74	Heavy snow in flakes	75	
32	Duststorm or sandstorm, increasing	76	Ice prisms (with or without fog)		
36	Drifting snow, generally low	77	Snow grains (with or without fog)		
38	Blowing snow, generally high	78	Isolated starlike snow crystals (with or without fog)		
		79	Ice pellets		
40-49 FOG AT THE TIME OF OBSERVATION					
40	Fog at a distance but not at ship during past hour				
41	Fog in patches				

Table 2 (cont'd.)

Code	80-84 RAIN SHOWERS	Code	91-94 THUNDERSTORM DURING THE PAST HOUR BUT NOT AT THE TIME OF OBSERVATION
80	Slight rain shower	91	Slight rain
81	Moderate or heavy rain shower	92	Moderate or heavy rain
82	Violent rain shower	93	Slight snow, or rain and snow mixed, or hail*
83	Shower of rain and snow mixed, slight	94	Moderate or heavy snow, or rain and snow mixed, or hail*
84	Shower of rain and snow mixed, moderate or heavy		
85-90 SOLID PRECIPITATION IN SHOWERS			
Slight		Moderate or Heavy	
85	Shower of snow	86	
87	Shower of snow pellets or ice pellets*	88	
89	Shower of hail, no thunder	90	
	*With or without rain and/or snow		
		Code	95-99 THUNDERSTORM AT TIME OF OBSERVATION
		95	Slight or modt. thunderstorm with rain and/or snow, but no hail*
		96	Slight or modt. thunderstorm with hail*
		97	Heavy thunderstorm with rain and/or snow, no hail*
		98	Thunderstorm with dust or sandstorm
		99	Heavy thunderstorm with hail*
			*Includes hail, ice pellets or snow pellets

TABLE 3

CLOUD AMOUNT (N — Code)

Fraction of the sky covered by clouds

Code	Cloud Cover	Code	Cloud Cover
0	Cloudless	6	6/8
1	1/8 or less but not zero	7	7/8 or more but not 8/8
2	2/8	8	8/8, sky totally covered
3	3/8	9	Sky obscured by dense fog, heavy snow, etc., or amount cannot be estimated.
4	4/8		
5	5/8		

TABLE 4

## COUNTRY CODES (abbreviated table)

Complete table see OCEANS IV Systems' Description.

06 Germany	46 Iceland
09 Australia	49 Japan
18 Canada	58 Norway
26 Denmark	64 Netherlands
31 United States	74 United Kingdom
35 France	90 Union of Soviet Socialist Republics

TABLE 5

## INSTITUTE CODES

01 Marine Ecology Laboratory, Bedford Institute	14 Institute of Oceanography, Dalhousie University
02 Pacific Oceanographic Group	15 Marine Sciences Branch, Pacific Region
03 Biological Station, St. Andrews, N.B.	16 Department of Transport
04 Arctic Biological Station, Ste. Anne de Bellevue, P.Q.	17 Marine Sciences Centre, McGill University
05 Biological Station, St. John's Nfld.	18 Canadian Forces Maritime Command, East Coast
06 Station de Biologie Marine, Grande Rivière	19 Canadian Forces Maritime Command, West Coast
07 Marine Sciences Branch, Central Region	20 Ontario Water Resources Commission
08 Defence Research Establishment, Atlantic	21 Dept. of National Health and Welfare
09 Defence Research Establishment, Pacific	22 Inland Waters Branch, Dept. of Energy, Mines and Resources
10 Atlantic Oceanographic Laboratory, Bedford Institute	23 Arctic Institute of North America
11 Polar Continental Shelf Project	
12 Great Lakes Institute	
13 Institute of Oceanography, University of British Columbia	

TABLE 6  
DOUBTFUL DATA MARKERS AND ERROR CODES

Code	Explanation
X	Considered doubtful by the data originator.
Y	Considered doubtful by CODC.
A-I	Error estimates coded as shown below. The codes are used only as a measure of the spread between duplicate or multiplicate measurements at the same location and time.

Let P be the difference between two measurements. P is then coded in multiples of the last digit allowed for on the coding form as follows:

$P \leq 1$	Code A
$1 < P \leq 2$	Code B
$2 < P \leq 5$	Code C
$5 < P \leq 10$	Code D
$10 < P \leq 20$	Code E
$20 < P \leq 50$	Code F
$50 < P \leq 100$	Code G
$100 < P \leq 200$	Code H
$200 < P$	Code I

A temperature error  $P=0.003^{\circ}\text{C}$  is coded as C, an error  $P=0.02^{\circ}\text{C}$  as E, and a salinity error  $P=0.08$  per mille as G, etc.

If the datum is based on a triple measurement, P is taken equal to the standard deviation:

$$P = \left\{ \frac{1}{2} \sum_{i=1}^3 (A_i - \bar{A})^2 \right\}^{1/2}$$

where  $A_i$  are the measurements and  $\bar{A}$  the mean value of the observed parameter.

- |   |   |
|---|---|
| W | Appears only with interpolated data, and indicates that linear interpolation has been used instead of hyperbolic. |
| P | This is not an error code; it indicates data sampled with an in-situ probe.                                       |



TABLE 7

## STANDARD LEVELS

0000	0200	1200	5500
0010	0225	1500	6000
0020	0250	2000	6500
0030	0300	2500	7000
0050	0400	3000	7500
0075	0500	3500	8000
0100	0600	4000	8500
0125	0700	4500	9000
0150	0800	5000	9500
0175	1000		

Note: The standard levels can refer to standard depths or to standard pressure levels as indicated on page 1.



### SECTION III

Serial Oceanographic data





## GENERAL INFORMATION ON THE CRUISE

CODC Cruise Identification (country, inst., crn.): ..... 1810-71038  
 Originating Institute: ..... Atlantic Oceanographic Laboratory .....  
 Originator's Cruise Number (if applicable): ..... 71-038  
 Area: ..... Gulf of St. Lawrence .....  
 Observation Platform ..... CNAV "Sackville"  
 Period ..... 18 - 28 November, 1971 .....

## PARAMETERS MEASURED

1	Temperature	9
2	Salinity	10
3		11
4		12
5		13
6		14
7		15
8		16

## METHODS USED

## Sea Surface Temperature

☒ Same as Subsurface  
☐ Bucket  
☐ Water Intake  
☐ Tow Frame

## Sub Surface Temperature

☐ Reversing Thermometer  
☒ Thermal Probe

## Salinity

☐ Titration  
☐ Conductance  
☐ Inductance  
☐ Refrac. Index  
☒ In Situ Probe  
☐ Hydrometer

## Oxygen

☐ Winkler  
☐ In Situ Probe

Anemometer Height in M Above Sea Level: 15

## Sounding Corrections Applied

☒ Soundspeed of 1463 m/sec  
☐ Soundspeed of 1500 m/sec  
☐ Matthews Tables  
☐ Measured or Calculated In Situ  
 Soundspeed Profile

## Air Pressure

☒ Barometer Reading Uncorrected  
☐ Corrected for Barometer Height  
☐ Corrected For Bar. Height and  
 Outside Air Temperature

## INTERPOLATION

## Interpolation Technique

☐ Rattray  
☒ Reiniger and Ross

## Interpolation to "Standard" Levels of:

☐ Depth  
☒ Pressure



## CRUISE NUMBER 71038 STATION NUMBER 001

LAT	N47 25.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	180	WW	02	COUN	18
LONG	W 59 35.05	MONTH	11	SWEL-P/H	02	WIND-SPD	09	CLD-A	8	INST	10
DEPTH	457.0	DAY	20	SWEL-D	180	AIR-TEM	3.3			RESTR	
MARSD SQ	150	H/M	0358	BARO	1001.5	WET-BL B				UNAS	004

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0358	0.0	0.0C	5.770P	5.770	31.770P	2505	2505	1469.9C	0	0	2915
0358	5.0	5.0C	5.770P	5.770	31.780P	2506	2506	1470.0C	15	0	2908
0358	10.0	10.1C	5.770P	5.769	31.800P	2508	2508	1470.1C	29	2	2893
0358	15.0	15.1C	5.770P	5.769	31.790P	2507	2507	1470.1C	44	3	2901
0358	20.0	20.2C	5.770P	5.768	31.800P	2508	2508	1470.2C	59	6	2894
0358	25.0	25.2C	5.760P	5.758	31.800P	2508	2508	1470.3C	73	9	2894
0358	30.0	30.2C	5.750P	5.748	31.800P	2508	2508	1470.3C	88	13	2893
0358	40.0	40.3C	4.650P	4.647	31.820P	2522	2522	1466.0C	116	24	2762
0358	50.0	50.4C	1.000P	0.998	32.630P	2616	2616	1451.4C	140	35	1859
0358	75.0	75.6C	0.220P	0.217	32.860P	2639	2639	1448.6C	184	63	1642
0358	100.0	100.8C	0.860P	0.856	33.080P	2653	2653	1452.2C	223	98	1508
0358	125.0	126.0C	2.000P	1.993	33.340P	2667	2667	1458.0C	260	140	1387
0358	150.0	151.2C	3.300P	3.290	33.650P	2680	2680	1464.5C	293	188	1263
0358	175.0	176.4C	4.590P	4.577	34.040P	2698	2698	1470.9C	323	237	1101
0358	200.0	201.6C	5.300P	5.284	34.290P	2710	2710	1474.6C	350	288	996
0358	250.0	252.1C	5.600P	5.579	34.570P	2728	2729	1477.0C	395	394	830
0358	300.0	302.5C	5.330P	5.305	34.680P	2740	2741	1476.9C	434	504	721
0358	350.0	353.0C	4.900P	4.872	34.780P	2753	2754	1476.1C	468	615	602
0358	400.0	403.5C	4.680P	4.648	34.820P	2759	2759	1476.0C	497	726	552
0358	440.0	443.8C	4.650P	4.615	34.840P	2761	2761	1476.6C	519	821	538

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	5.770	5.770	31.770	2505	2505	1469.9	0	0	2915
	9.9	10.0	5.770W	5.769	31.800A	2508	2508	1470.1W	29	2	2893
	19.8	20.0	5.770W	5.768	31.800W	2508	2508	1470.2W	58	6	2894
	29.8	30.0	5.750A	5.748	31.800W	2508	2508	1470.3W	87	13	2893
	49.6	50.0	1.124E	1.122	32.602C	2613	2613	1451.9A	139	35	1890
	74.4	75.0	0.222C	0.219	32.855A	2639	2639	1448.6A	183	62	1646
	99.2	100.0	0.832A	0.828	33.072A	2653	2653	1452.1A	222	97	1512
	124.0	125.0	1.952A	1.945	33.329A	2666	2666	1457.8A	259	138	1392
	148.8	150.0	3.238A	3.228	33.634A	2679	2679	1464.2A	292	186	1270
	173.6	175.0	4.524C	4.511	34.022A	2697	2697	1470.6A	321	234	1109
	198.4	200.0	5.271A	5.255	34.278A	2709	2709	1474.4A	348	285	1002
	223.2	225.0	5.620D	5.601	34.452C	2719	2720	1476.5A	372	337	912
	247.9	250.0	5.600B	5.579	34.562A	2727	2728	1477.0A	393	390	836
	297.5	300.0	5.347A	5.323	34.675A	2739	2740	1476.9A	432	499	727
	396.5	400.0	4.689A	4.657	34.818A	2759	2759	1476.0A	495	718	554

CRUISE NUMBER 71038

STATION NUMBER 002

LAT	N47 35.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	180	HW	02	COUN	18
LONG	W 59 20.00	MONTH	11	SWEL-P/H	03	WIND-SPD	09	CLD-A	8	INST	10
DEPTH	270.0	DAY	20	SWEL-D	180	AIR-TEM	3.3			RESTR	
MARSD SQ	150	H/M	0550	BARO	1001.0	WET-BLB				UNAS	005

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0550	0.0	0.00	5.550P	5.550	31.540P	2490	2490	1468.7C	0	0	3063
0550	5.0	5.00	5.550P	5.550	31.540P	2490	2490	1468.8C	15	0	3064
0550	10.0	10.10	5.550P	5.549	31.530P	2489	2489	1468.8C	31	2	3072
0550	15.0	15.10	5.550P	5.549	31.530P	2489	2489	1468.9C	46	4	3072
0550	20.0	20.20	5.550P	5.548	31.520P	2488	2488	1469.0C	62	6	3080
0550	25.0	25.20	5.520P	5.518	31.530P	2489	2489	1468.9C	77	10	3070
0550	30.0	30.20	5.520P	5.518	31.540P	2490	2490	1469.0C	93	14	3062
0550	40.0	40.30	5.510P	5.507	31.560P	2492	2492	1469.2C	124	25	3047
0550	50.0	50.40	4.950P	4.946	31.780P	2515	2516	1467.3C	153	39	2823
0550	75.0	75.60	4.470P	4.465	31.880P	2528	2528	1465.9C	223	84	2701
0550	100.0	100.80	2.350P	2.345	32.370P	2586	2586	1457.8C	284	139	2147
0550	125.0	126.00	0.750P	0.745	32.840P	2635	2635	1451.8C	332	194	1684
0550	150.0	151.20	0.740P	0.734	33.130P	2658	2658	1452.5C	372	249	1463
0550	175.0	176.40	2.350P	2.340	33.510P	2677	2677	1460.6C	406	307	1288
0550	200.0	201.60	4.200P	4.185	34.030P	2702	2702	1469.7C	436	364	1069
0550	250.0	252.10	5.360P	5.339	34.560P	2731	2731	1476.0C	483	471	808
0550	270.0	272.20	5.290P	5.268	34.640P	2738	2738	1476.2C	498	513	743

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	5.550	5.550	31.540	2490	2490	1468.7	0	0	3063
	9.9	10.0	5.550W	5.549	31.530W	2489	2489	1468.8W	31	2	3072
	19.8	20.0	5.550W	5.548	31.520W	2488	2488	1469.0W	61	6	3080
	29.8	30.0	5.520W	5.518	31.540A	2490	2490	1469.0W	92	14	3062
	49.6	50.0	4.970B	4.966	31.772A	2514	2515	1467.4A	152	38	2831
	74.4	75.0	4.500B	4.495	31.873A	2527	2527	1466.0A	221	83	2709
	99.2	100.0	2.409A	2.404	32.355A	2584	2584	1458.0A	282	137	2163
	124.0	125.0	0.786C	0.781	32.824A	2634	2634	1451.9A	330	192	1698
	148.8	150.0	0.740W	0.698	33.114A	2657	2657	1452.3A	370	246	1472
	173.6	175.0	2.254B	2.244	33.486A	2676	2676	1460.1A	404	304	1299
	198.4	200.0	4.105C	4.091	34.001B	2701	2701	1469.2A	434	360	1082
	223.2	225.0	5.158D	5.140	34.354C	2719	2719	1474.5B	460	414	919
	247.9	250.0	5.356C	5.335	34.548A	2730	2730	1475.9A	481	467	816



## CRUISE NUMBER 71038 STATION NUMBER 003

LAT	N48	0.00	YEAR	1971	WAVE-P/H	04	WIND-DIR	180	WW	02	COUN	18
LONG	W 59	31.03	MONTH	11	SWEL-P/H	04	WIND-SPD	10	CLD-A	8	INST	10
DEPTH		176.0	DAY	20	SWEL-D	180	AIR-TEM	5.0			RESTR	
MARSD	SQ	150	H/M	0845	BARO	1001.0	WET-BLB				UNAS	006

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0845	0.0	0.0C	5.580P	5.580	31.430P	2481	2481	1468.6C	0	0	3149
0845	5.0	5.0C	5.580P	5.580	31.430P	2481	2481	1468.7C	16	0	3149
0845	10.0	10.1C	5.580P	5.579	31.430P	2481	2481	1468.8C	32	2	3150
0845	15.0	15.1C	5.580P	5.579	31.440P	2482	2482	1468.9C	48	4	3143
0845	20.0	20.2C	5.580P	5.578	31.440P	2482	2482	1469.0C	64	7	3143
0845	25.0	25.2C	5.580P	5.578	31.440P	2482	2482	1469.1C	79	10	3144
0845	30.0	30.2C	5.580P	5.578	31.440P	2482	2482	1469.2C	95	15	3144
0845	40.0	40.3C	5.580P	5.577	31.450P	2482	2482	1469.3C	127	26	3137
0845	50.0	50.4C	5.580P	5.576	31.450P	2482	2482	1469.5C	158	41	3138
0845	75.0	75.6C	5.580P	5.574	31.450P	2482	2482	1469.9C	238	92	3140
0845	100.0	100.8C	5.300P	5.292	31.600P	2497	2498	1469.4C	316	162	2999
0845	125.0	126.0C	1.290P	1.284	32.560P	2609	2609	1453.8C	378	233	1929
0845	150.0	151.2C	0.580P	0.574	32.800P	2633	2633	1451.4C	423	296	1704
0845	175.0	176.4C	0.820P	0.813	32.860P	2636	2636	1452.9C	465	367	1672

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	5.580	5.580	31.430	2481	2481	1468.6	0	0	3149
	9.9	10.0	5.580W	5.579	31.430W	2481	2481	1468.8A	32	2	3150
	19.8	20.0	5.580W	5.578	31.440W	2482	2482	1469.0A	63	7	3143
	29.8	30.0	5.580W	5.578	31.440W	2482	2482	1469.2A	94	15	3144
	49.6	50.0	5.580W	5.576	31.450W	2482	2482	1469.5A	157	40	3138
	74.4	75.0	5.580W	5.574	31.450W	2482	2482	1469.9A	236	91	3140
	99.2	100.0	5.309W	5.349	31.595W	2497	2497	1469.6A	314	160	3016
	124.0	125.0	1.386B	1.380	32.536A	2606	2606	1454.2A	376	230	1955
	148.8	150.0	0.591C	0.585	32.793A	2632	2632	1451.4A	421	293	1710
	173.6	175.0	0.807W	0.800	32.857W	2636	2636	1452.8W	463	363	1674

CRUISE NUMBER 71038

STATION NUMBER 004

LAT	N48	9.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	180	HW	02	COUN	18
LONG	W 60	6.00	MONTH	11	SWEL-P/H	04	WIND-SPD	15	CLO-A	8	INST	10
DEPTH	457.0		DAY	20	SWEL-D	180	AIR-TEM	4.4			RESTR	
MARSD	SQ	151	H/M	1300	BARO	1000.4	WET-BLB				UNAS	007

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1300	0.0	5.00	5.150P	5.150	31.630P	2501	2501	1467.1C	0	0	2953
1300	5.0	5.00	5.290P	5.290	31.600P	2498	2498	1467.8C	15	0	2991
1300	10.0	10.10	5.170P	5.169	31.630P	2501	2501	1467.4C	30	2	2956
1300	15.0	15.10	5.160P	5.159	31.630P	2501	2501	1467.4C	45	3	2955
1300	20.0	20.20	5.160P	5.158	31.620P	2501	2501	1467.5C	60	6	2963
1300	25.0	25.20	5.130P	5.128	31.620P	2501	2501	1467.5C	75	10	2960
1300	30.0	30.20	5.120P	5.118	31.630P	2502	2502	1467.5C	89	14	2952
1300	40.0	40.30	5.070P	5.067	31.630P	2502	2502	1467.5C	119	24	2948
1300	50.0	50.40	4.530P	4.526	31.790P	2521	2521	1465.6C	148	38	2773
1300	75.0	75.60	3.760P	3.755	32.000P	2545	2545	1463.0C	215	81	2543
1300	100.0	100.60	0.950P	0.946	32.690P	2622	2622	1452.1C	270	130	1810
1300	125.0	126.00	1.810P	1.804	33.120P	2650	2650	1456.9C	312	178	1540
1300	150.0	151.20	2.680P	2.591	33.440P	2670	2670	1461.2C	348	229	1360
1300	175.0	176.40	3.600P	3.588	33.740P	2685	2685	1466.3C	381	283	1225
1300	200.0	201.60	4.600P	4.585	34.090P	2702	2702	1471.4C	410	339	1067
1300	250.0	252.10	5.380P	5.359	34.500P	2726	2726	1476.0C	458	450	855
1300	300.0	302.50	5.040P	5.016	34.630P	2740	2740	1475.6C	498	561	724
1300	350.0	353.00	4.930P	4.902	34.760P	2751	2752	1476.2C	532	674	620
1300	400.0	403.50	4.720P	4.688	34.810P	2758	2758	1476.2C	561	788	564
1300	430.0	433.80	4.680P	4.646	34.820P	2759	2759	1476.5C	578	861	555

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	5.150	5.150	31.630	2501	2501	1467.1	0	0	2953
	9.9	10.0	5.171A	5.170	31.629W	2501	2501	1467.4W	30	2	2956
	19.8	20.0	5.160W	5.159	31.620W	2501	2501	1467.5W	59	6	2963
	29.8	30.0	5.121A	5.119	31.630W	2502	2502	1467.5W	88	14	2952
	49.6	50.0	4.550B	4.546	31.784W	2520	2520	1465.7W	147	37	2780
	74.4	75.0	3.800C	3.795	31.990A	2544	2544	1463.2A	214	80	2554
	99.2	100.0	0.985C	0.981	32.672A	2620	2620	1452.2A	268	128	1826
	124.0	125.0	1.777A	1.771	33.105A	2649	2649	1456.7A	310	176	1549
	148.8	150.0	2.558A	2.549	33.425A	2669	2669	1461.0A	346	227	1367
	173.6	175.0	3.544A	3.533	33.722A	2684	2684	1466.0A	379	280	1233
	198.4	200.0	4.537A	4.522	34.070A	2701	2701	1471.1A	408	335	1076
	223.2	225.0	5.141E	5.123	34.323C	2715	2715	1474.4A	434	390	954
	247.9	250.0	5.372B	5.351	34.489A	2725	2725	1475.9A	456	445	862
	297.5	300.0	5.052A	5.028	34.624A	2739	2739	1475.6A	496	555	730
	396.5	400.0	4.730B	4.698	34.808A	2758	2758	1476.2W	559	780	566

CRUISE NUMBER 71038

STATION NUMBER 005

LAT	N48	22.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	180	WW	21	COUN	18
LONG	W 60	39.00	MONTH	11	SWEL-P/H	05	WIND-SFD	15	CLD-A	8	INST	10
DEPTH		440.0	DAY	20	SWEL-D	180	AIR-TEM	4.4			RESTR	
MARSD	SQ	151	H/M	1545	BARO	1000.2	WE T-BLB				UNAS	008

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1545	0.0	0.0C	3.730P	3.730	31.780P	2528	2528	1461.4C	0	0	2703
1545	5.0	5.0C	3.720P	3.720	31.780P	2528	2528	1461.4C	14	0	2702
1545	10.0	10.1C	3.710P	3.709	31.780P	2528	2528	1461.5C	27	1	2701
1545	15.0	15.1C	3.710P	3.709	31.770P	2527	2527	1461.5C	41	3	2709
1545	20.0	20.2C	3.710P	3.709	31.770P	2527	2527	1461.6C	55	6	2709
1545	25.0	25.2C	3.700P	3.698	31.780P	2528	2528	1461.7C	68	9	2701
1545	30.0	30.2C	3.700P	3.698	31.790P	2529	2529	1461.8C	82	13	2694
1545	40.0	40.3C	3.650P	3.647	31.890P	2537	2537	1461.8C	108	22	2614
1545	50.0	50.4C	3.640P	3.637	31.890P	2537	2537	1462.0C	135	34	2614
1545	75.0	75.6C	0.520P	0.517	32.660P	2622	2622	1449.7C	191	70	1809
1545	100.0	100.8C	1.080P	1.076	32.970P	2643	2643	1453.0C	233	108	1605
1545	125.0	126.0C	1.700P	1.694	33.190P	2657	2657	1456.5C	272	153	1479
1545	150.0	151.2C	3.120P	3.111	33.630P	2680	2680	1463.7C	307	201	1262
1545	175.0	176.4C	4.330P	4.317	34.030P	2700	2700	1469.8C	336	250	1081
1545	200.0	201.6C	5.130P	5.114	34.340P	2716	2716	1474.0C	361	299	939
1545	250.0	252.1C	5.180P	5.160	34.540P	2731	2731	1475.3C	405	399	802
1545	300.0	302.5C	5.120P	5.095	34.630P	2739	2739	1475.9C	444	508	734
1545	350.0	353.0C	4.930P	4.902	34.720P	2748	2749	1476.1C	479	625	650
1545	400.0	403.5C	4.680P	4.648	34.820P	2759	2759	1476.0C	509	741	552
1545	440.0	443.9C	4.680P	4.645	34.810P	2758	2759	1476.7C	531	838	564

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.730	3.730	31.780	2528	2528	1461.4	0	0	2703
	9.9	10.0	3.710W	3.709	31.780W	2528	2528	1461.5W	27	1	2701
	19.8	20.0	3.710W	3.709	31.770W	2527	2527	1461.6W	54	6	2709
	29.8	30.0	3.700W	3.698	31.790A	2529	2529	1461.8W	81	13	2694
	49.6	50.0	3.641B	3.638	31.890W	2537	2537	1462.0W	134	33	2614
	74.4	75.0	0.552B	0.549	32.642W	2620	2620	1449.8A	190	69	1828
	99.2	100.0	1.061A	1.057	32.962A	2642	2642	1452.9A	232	107	1610
	124.0	125.0	1.663B	1.657	33.177A	2656	2656	1456.3A	271	151	1486
	148.8	150.0	3.057A	3.048	33.610A	2679	2679	1463.4A	305	199	1272
	173.6	175.0	4.272A	4.260	34.010A	2699	2699	1469.5A	335	247	1090
	198.4	200.0	5.093A	5.077	34.324A	2715	2715	1473.8A	360	296	947
	223.2	225.0	5.185F	5.167	34.468D	2725	2725	1474.8B	382	345	853
	247.9	250.0	5.180A	5.160	34.534A	2731	2731	1475.3A	403	395	806
	297.5	300.0	5.126A	5.101	34.626A	2739	2739	1475.9A	442	502	738
	396.5	400.0	4.697W	4.660	34.813A	2758	2758	1476.0A	507	733	558



## CRUISE NUMBER 71038 STATION NUMBER 006

LAT	N48 36.30	YEAR	1971	WAVE-P/H	06	WIND-DIR	180	WW	21	COUN	18
LONG	W 61 11.00	MONTH	11	SWEL-P/H	06	WIND-SPD	15	CLO-A	8	INST	10
DEPTH	385.0	DAY	20	SWEL-D	180	AIR-TEM	3.3			RESTR	
MARSD SQ	151	H/M	1852	BARO	999.8	WET-BLB				UNAS	009

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1852	0.0	0.00	3.530P	3.530	31.550P	2511	2511	1460.2C	0	0	2859
1852	5.0	5.00	3.530P	3.530	31.550P	2511	2511	1460.3C	14	0	2859
1852	10.0	10.10	3.530P	3.529	31.560P	2512	2512	1460.4C	29	1	2852
1852	15.0	15.10	3.540P	3.539	31.550P	2511	2511	1460.5C	43	3	2860
1852	20.0	20.20	3.540P	3.539	31.550P	2511	2511	1460.6C	58	6	2861
1852	25.0	25.20	3.550P	3.548	31.550P	2511	2511	1460.7C	72	9	2862
1852	30.0	30.20	3.560P	3.558	31.550P	2511	2511	1460.8C	86	13	2863
1852	40.0	40.30	3.700P	3.697	31.580P	2512	2512	1461.6C	115	24	2853
1852	50.0	50.40	3.760P	3.697	31.670P	2519	2519	1461.9C	144	37	2785
1852	75.0	75.60	0.250P	0.247	32.470P	2608	2608	1448.2C	203	75	1940
1852	100.0	100.80	1.200P	1.196	32.870P	2634	2635	1453.4C	249	115	1688
1852	125.0	126.00	2.300P	2.293	33.290P	2660	2660	1459.3C	288	161	1448
1852	150.0	151.20	3.200P	3.191	33.640P	2680	2681	1464.1C	322	209	1261
1852	175.0	176.40	4.020P	4.008	34.000P	2701	2701	1468.5C	351	257	1071
1852	200.0	201.60	4.500P	4.485	34.160P	2709	2709	1471.1C	377	307	1004
1852	250.0	252.10	5.100P	5.080	34.430P	2723	2724	1474.8C	425	417	875
1852	300.0	302.50	5.100P	5.075	34.640P	2740	2740	1475.9C	465	531	724
1852	350.0	353.00	4.870P	4.842	34.770P	2753	2753	1475.9C	499	642	606
1852	375.0	378.30	4.830P	4.800	34.790P	2755	2755	1476.2C	514	698	589

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.530	3.530	31.550	2511	2511	1460.2	0	0	2859
	9.9	10.1	3.530W	3.529	31.560W	2512	2512	1460.4A	29	1	2852
	19.8	20.2	3.540W	3.539	31.550W	2511	2511	1460.6A	57	6	2861
	29.8	30.2	3.560A	3.557	31.550W	2511	2511	1460.8A	85	13	2863
	49.6	50.4	3.700W	3.697	31.664A	2518	2518	1461.9A	143	36	2790
	74.4	75.6	0.332W	0.329	32.456A	2607	2607	1448.3A	202	74	1953
	99.2	100.8	1.167A	1.164	32.857A	2633	2634	1453.2A	248	114	1696
	124.0	126.0	2.260A	2.253	33.274A	2659	2659	1459.1A	287	159	1457
	148.8	150.8	3.159A	3.150	33.623A	2679	2680	1463.9A	320	207	1270
	173.6	175.6	3.982A	3.970	33.980A	2700	2700	1468.3A	349	254	1081
	198.4	201.6	4.475B	4.461	34.151A	2709	2709	1471.0A	375	304	1008
	223.2	225.6	4.778W	4.830	34.293A	2716	2716	1473.1A	400	357	943
	247.9	250.0	5.075W	5.067	34.420A	2722	2723	1474.7A	423	412	881
	297.5	300.0	5.100W	5.081	34.631A	2739	2739	1475.8W	463	525	731



## CRUISE NUMBER 71038 STATION NUMBER 007

LAT	N48 54.40	YEAR	1971	WAVE-P/H	06	WIND-DIR	180	WW	25	COUN	18
LONG	W 61 39.30	MONTH	11	SWEL-P/H	06	WIND-SPD	08	CLD-A	8	INST	10
DEPTH	150.0	DAY	20	SWEL-D	180	AIR-TEM	3.3			RESTR	
MARSD	SQ 151	H/M	2229	BARO	999.8	WET-BL8				UNAS	010

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2229	0.0	0.00	2.600P	2.600	31.240P	2494	2494	1455.8C	0	0	3020
2229	5.0	5.00	2.600P	2.600	31.240P	2494	2494	1455.8C	15	0	3020
2229	10.0	10.10	2.600P	2.599	31.230P	2494	2494	1455.9C	31	2	3028
2229	15.0	15.10	2.600P	2.599	31.240P	2494	2494	1456.0C	46	4	3020
2229	20.0	20.20	2.600P	2.599	31.250P	2495	2495	1456.1C	61	6	3012
2229	25.0	25.20	2.600P	2.599	31.250P	2495	2495	1456.2C	76	10	3013
2229	30.0	30.20	2.600P	2.598	31.250P	2495	2495	1456.3C	91	14	3013
2229	40.0	40.30	2.450P	2.448	31.400P	2508	2508	1456.0C	121	25	2888
2229	50.0	50.40	0.820P	0.818	32.130P	2577	2577	1449.9C	147	37	2229
2229	75.0	75.60	0.700P	0.697	32.840P	2635	2635	1450.7C	194	67	1682
2229	100.0	100.80	1.150P	1.146	32.910P	2638	2638	1453.3C	236	104	1655
2229	125.0	126.00	1.780P	1.774	33.130P	2651	2651	1456.8C	276	150	1530
2229	150.0	151.20	2.000P	1.992	33.210P	2656	2656	1458.3C	314	204	1486

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.600	2.600	31.240	2494	2494	1455.8	0	0	3020
	9.9	10.0	2.600W	2.599	31.230W	2494	2494	1455.9W	31	2	3028
	19.8	20.0	2.600W	2.599	31.250W	2495	2495	1456.1A	60	6	3012
	29.8	30.0	2.600W	2.598	31.250W	2495	2495	1456.3A	90	14	3013
	49.6	50.0	0.875D	0.873	32.103B	2575	2575	1450.1A	146	37	2253
	74.4	75.0	0.696B	0.693	32.831A	2634	2634	1450.7A	193	66	1689
	99.2	100.0	1.133A	1.129	32.906A	2638	2638	1453.2A	235	103	1657
	124.0	125.0	1.762A	1.756	33.124A	2651	2651	1456.7A	274	148	1533
	148.8	150.0	1.990W	1.982	33.206W	2656	2656	1458.2W	312	201	1488

## CRUISE NUMBER 71038

## STATION NUMBER 008

LAT	N49 10.00	YEAR	1971	WAVE-P/H	04	WIND-DIR	130	WH	21	COUN	18
LONG	W 60 0.00	MONTH	11	SWEL-P/H	05	WIND-SFD	08	CLO-A	8	INST	10
DEPTH	250.0	DAY	21	SWEL-D	130	AIR-TEM	4.4			RESTR	
MARSD	SQ 151	H/M	0712	BARO	1000.0	WET-BLB				UNAS	011

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0712	0.0	0.00	3.900P	3.900	31.730P	2522	2522	1462.00	0	0	2756
0712	5.0	5.00	3.900P	3.900	31.670P	2517	2517	1462.00	14	0	2801
0712	10.0	10.10	3.900P	3.899	31.690P	2519	2519	1462.10	28	1	2786
0712	15.0	15.10	3.890P	3.889	31.720P	2521	2521	1462.20	42	3	2763
0712	20.0	20.20	3.700P	3.699	31.760P	2526	2526	1461.60	56	6	2716
0712	25.0	25.20	3.610P	3.608	31.760P	2527	2527	1461.20	70	9	2708
0712	30.0	30.20	3.520P	3.518	31.750P	2527	2527	1460.90	83	13	2708
0712	40.0	40.30	3.500P	3.498	31.740P	2527	2527	1461.00	110	23	2715
0712	50.0	50.40	3.350P	3.347	31.750P	2529	2529	1460.50	138	35	2694
0712	75.0	75.60	0.900P	0.897	32.040P	2570	2570	1450.50	201	76	2302
0712	100.0	100.80	1.180P	1.176	32.680P	2619	2619	1453.10	253	122	1831
0712	125.0	126.00	1.700P	1.694	33.000P	2642	2642	1456.30	296	172	1623
0712	150.0	151.20	2.500P	2.491	33.350P	2663	2664	1460.70	335	226	1420
0712	175.0	176.40	3.680P	3.668	33.820P	2690	2690	1466.80	368	281	1173
0712	200.0	201.70	4.800P	4.784	34.290P	2716	2716	1472.50	394	332	939
0712	250.0	252.10	5.100P	5.080	34.540	2732	2732	1474.90	438	432	792

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.900	3.900	31.730	2522	2522	1462.0	0	0	2756
	9.9	10.0	3.900W	3.899	31.690A	2519	2519	1462.1W	28	1	2786
	19.8	20.0	3.706A	3.705	31.758W	2526	2526	1461.6A	55	6	2717
	29.8	30.0	3.524A	3.521	31.750W	2527	2527	1460.9A	82	13	2708
	49.6	50.0	3.362B	3.360	31.750W	2529	2529	1460.5A	137	34	2696
	74.4	75.0	0.927B	0.924	32.029A	2569	2569	1450.6A	200	75	2312
	99.2	100.0	1.167A	1.163	32.665A	2618	2618	1453.0A	251	120	1842
	124.0	125.0	1.674A	1.668	32.987A	2641	2641	1456.2A	294	170	1631
	148.8	150.0	2.454A	2.445	33.331A	2662	2663	1460.5A	333	223	1430
	173.6	175.0	3.616A	3.604	33.794A	2689	2689	1466.5A	366	278	1186
	198.3	200.0	4.740C	4.724	34.259A	2715	2714	1472.2A	392	329	952
	223.1	225.0	4.939W	4.921	34.406W	2723	2723	1473.6W	414	378	871
	247.9	250.0	5.087W	5.068	34.530W	2731	2731	1474.8W	436	428	798

## CRUISE NUMBER 71038 STATION NUMBER 009

LAT	N 49 21.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	130	HW	02	COUN	18
LONG	W 58 33.00	MONTH	11	SWEL-P/H	05	WIND-SPD	10	CLO-A	6	INST	10
DEPTH	81.0	DAY	21	SWEL-D	130	AIR-TEM	4.4			RESTR	
MARSD SQ	150	H/M	1405	BARO	1000.1	WET-BLB				UNAS	012

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1405	0.0	0.00	3.720P	3.720	31.590P	2513	2513	1461.1C	0	0	2845
1405	5.0	5.00	3.720P	3.720	31.590P	2513	2513	1461.2C	14	0	2845
1405	10.0	10.10	3.720P	3.719	31.590P	2513	2513	1461.2C	29	1	2846
1405	15.0	15.10	3.720P	3.719	31.590P	2513	2513	1461.3C	43	3	2846
1405	20.0	20.20	3.720P	3.719	31.580P	2512	2512	1461.4C	58	6	2854
1405	25.0	25.20	3.720P	3.718	31.580P	2512	2512	1461.5C	72	9	2854
1405	30.0	30.20	3.720P	3.718	31.580P	2512	2512	1461.6C	86	13	2854
1405	40.0	40.30	3.530P	3.528	31.630P	2518	2518	1461.0C	115	24	2800
1405	50.0	50.40	1.800P	1.798	32.190P	2576	2576	1454.4C	140	35	2243
1405	75.0	75.60	1.680P	1.676	32.890P	2633	2633	1455.2C	190	67	1704

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.720	3.720	31.590	2513	2513	1461.1	0	0	2845
	9.9	10.0	3.720W	3.719	31.590W	2513	2513	1461.2W	29	1	2846
	19.8	20.0	3.720W	3.719	31.580W	2512	2512	1461.4A	57	6	2854
	29.8	30.0	3.720W	3.718	31.580W	2512	2512	1461.6A	85	13	2854
	49.6	50.0	1.859D	1.857	32.169B	2574	2574	1454.6A	139	35	2263
	74.4	75.0	1.683W	1.679	32.873W	2632	2632	1455.2W	189	66	1717

## CRUISE NUMBER 71038

## STATION NUMBER 010

LAT	N49 35.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	130	HW	02	COUN	18
LONG	W 58 51.00	MONTH	11	SWEL-P/H	05	WIND-SPD	10	CLO-A	6	INST	10
DEPTH	150.0	DAY	21	SWEL-D	130	AIR-TEM	4.4			RESTR	
MARSD SQ	100	H/M	1616	BARO	1000.1	WET-BLB				UNAS	013

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1616	0.0	0.00	2.650P	2.650	31.720P	2532	2532	1456.6C	0	0	2660
1616	5.0	5.00	2.620P	2.620	31.720P	2533	2533	1456.6C	13	0	2657
1616	10.0	10.10	2.600P	2.599	31.730P	2533	2533	1456.6C	27	1	2648
1616	15.0	15.10	2.590P	2.589	31.730P	2534	2534	1456.6C	40	3	2648
1616	20.0	20.20	2.450P	2.449	31.730P	2535	2535	1456.1C	54	6	2638
1616	25.0	25.20	1.750P	1.749	31.850P	2549	2549	1453.3C	66	8	2498
1616	30.0	30.20	1.300P	1.299	32.390P	2595	2595	1452.1C	78	12	2059
1616	40.0	40.30	1.200P	1.198	32.600P	2613	2613	1452.1C	97	19	1894
1616	50.0	50.40	1.200P	1.198	32.650P	2617	2617	1452.3C	116	27	1856
1616	75.0	75.60	1.550P	1.546	32.900P	2635	2635	1454.6C	161	56	1688
1616	100.0	100.80	2.300P	2.295	33.220P	2655	2655	1458.8C	201	92	1500
1616	125.0	126.00	2.620P	2.613	33.330P	2661	2661	1460.7C	238	135	1444
1616	140.0	141.10	3.000P	3.041	33.510P	2671	2672	1463.1C	259	163	1345

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.650	2.650	31.720	2532	2532	1456.6	0	0	2660
	9.9	10.0	2.600A	2.599	31.730W	2533	2533	1456.6W	27	1	2648
	19.8	20.0	2.465B	2.464	31.730W	2535	2535	1456.1W	53	6	2638
	29.8	30.0	1.313A	1.312	32.372B	2593	2593	1452.1W	78	12	2074
	49.6	50.0	1.200W	1.198	32.648A	2617	2617	1452.3W	115	27	1858
	74.4	75.0	1.542W	1.538	32.893A	2635	2635	1454.5A	160	55	1692
	99.2	100.0	2.283A	2.278	33.213A	2655	2655	1458.7A	200	91	1504
	124.0	125.0	2.600B	2.593	33.322A	2661	2661	1460.6A	237	133	1448



## CRUISE NUMBER 71038 STATION NUMBER 011

LAT	N49 49.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	130	WW	02	COUN	18
LONG	W 59 24.00	MONTH	11	SWEL-P/H	05	WIND-SPD	08	CLO-A	6	INST	10
DEPTH	256.0	DAY	21	SWEL-O	130	AIR-TEM	5.6			RESTR	
MARSD	SQ 150	H/M	1900	BARO	999.6	WET-BLB				UNAS	014

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1900	0.0	0.0C	3.420P	3.420	32.170P	2562	2562	1460.6C	0	0	2381
1900	5.0	5.0C	3.420P	3.420	32.160P	2561	2561	1460.6C	12	0	2389
1900	10.0	10.1C	3.420P	3.419	32.150P	2560	2560	1460.7C	24	1	2397
1900	15.0	15.1C	3.410P	3.409	32.180P	2562	2562	1460.8C	36	3	2373
1900	20.0	20.2C	3.490P	3.489	32.220P	2565	2565	1461.3C	48	5	2350
1900	25.0	25.2C	3.500P	3.498	32.220P	2565	2565	1461.4C	60	8	2351
1900	30.0	30.2C	3.500P	3.498	32.210P	2564	2564	1461.5C	72	11	2359
1900	40.0	40.3C	3.600P	3.597	32.240P	2565	2566	1462.1C	95	20	2346
1900	50.0	50.4C	3.680P	3.677	32.250P	2566	2566	1462.6C	119	30	2346
1900	75.0	75.6C	1.100P	1.097	32.580P	2612	2612	1452.2C	173	65	1903
1900	100.0	100.8C	0.600P	0.596	32.790P	2632	2632	1450.6C	218	105	1714
1900	125.0	126.0C	1.600P	1.594	33.010P	2643	2643	1455.8C	260	154	1609
1900	150.0	151.2C	2.650P	2.641	33.200P	2650	2650	1461.1C	300	210	1545
1900	175.0	176.4C	3.510P	3.499	33.360P	2655	2655	1465.4C	338	274	1502
1900	200.0	201.7C	4.430P	4.415	33.530P	2660	2660	1470.0C	376	346	1468
1900	240.0	242.0C	5.100P	5.081	33.670P	2663	2663	1473.6C	434	479	1441

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.420	3.420	32.170	2562	2562	1460.6	0	0	2381
	9.9	10.0	3.420W	3.419	32.150A	2560	2560	1460.7W	24	1	2397
	19.8	20.0	3.488A	3.487	32.218W	2565	2565	1461.3A	48	5	2351
	29.8	30.0	3.500W	3.498	32.210W	2564	2564	1461.5A	72	11	2359
	49.6	50.0	3.688A	3.685	32.249A	2566	2566	1462.6A	118	30	2346
	74.4	75.0	1.137B	1.134	32.574A	2611	2611	1452.3A	172	64	1914
	99.2	100.0	0.592B	0.588	32.783A	2632	2632	1450.5A	217	104	1719
	124.0	125.0	1.559A	1.553	33.002A	2643	2643	1455.6A	258	152	1612
	148.8	150.0	2.604A	2.595	33.192A	2650	2650	1460.9A	298	207	1548
	173.6	175.0	3.461A	3.450	33.351A	2655	2655	1465.2A	336	270	1504
	198.3	200.0	4.373C	4.357	33.519A	2660	2660	1469.7A	373	341	1470
	223.1	225.0	4.817W	4.800	33.611W	2662	2662	1472.1W	410	423	1452

CRUISE NUMBER 71038

STATION NUMBER 012

LAT	N50	15.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	130	HW	02	COUN	18
LONG	W 57	53.00	MONTH	11	SWEL-P/H	05	WIND-SPD	08	CLO-A	6	INST	10
DEPTH		201.0	DAY	22	SWEL-D	130	AIR-TEM	6.1			RESTR	
MARSD SQ		186	H/M	0155	BARO	999.7	WET-BLB				UNAS	015

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0155	0.0	0.00	3.740P	3.740	32.190P	2560	2560	1462.0C	0	0	2394
0155	5.0	5.00	3.800P	3.800	32.190P	2560	2560	1462.3C	12	0	2400
0155	10.0	10.10	3.700P	3.699	32.180P	2560	2560	1462.0C	24	1	2399
0155	15.0	15.10	3.060P	3.059	32.320P	2577	2577	1459.5C	36	3	2238
0155	20.0	20.20	2.230P	2.229	32.430P	2592	2592	1456.1C	47	5	2091
0155	25.0	25.20	1.910P	1.909	32.470P	2598	2598	1454.8C	57	7	2038
0155	30.0	30.20	1.860P	1.859	32.560P	2605	2605	1454.8C	67	10	1966
0155	40.0	40.30	2.410P	2.408	32.650P	2608	2608	1457.5C	87	17	1938
0155	50.0	50.40	2.320P	2.317	32.700P	2613	2613	1457.3C	106	26	1894
0155	75.0	75.60	2.350P	2.346	33.050P	2641	2641	1458.4C	151	54	1632
0155	100.0	100.80	2.500P	2.494	33.180P	2650	2650	1459.6C	191	90	1546
0155	125.0	126.00	3.500P	3.492	33.330P	2653	2653	1464.5C	229	135	1520
0155	150.0	151.20	3.960P	3.950	33.430P	2656	2657	1467.0C	267	188	1491
0155	175.0	176.50	4.370P	4.357	33.510P	2659	2659	1469.3C	305	251	1475
0155	195.0	196.60	4.450P	4.436	33.520P	2659	2659	1470.0C	334	307	1477

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.740	3.740	32.190	2560	2560	1462.0	0	0	2394
	9.9	10.0	3.707A	3.706	32.180W	2560	2560	1462.0W	24	1	2400
	19.8	20.0	2.254B	2.253	32.427A	2592	2592	1456.2A	47	5	2095
	29.8	30.0	1.857A	1.856	32.557A	2605	2605	1454.8W	67	10	1968
	49.6	50.0	2.323B	2.320	32.697A	2613	2613	1457.3A	105	26	1896
	74.4	75.0	2.348A	2.344	33.044A	2641	2641	1458.4A	150	53	1636
	99.2	100.0	2.484B	2.478	33.176A	2650	2650	1459.5A	190	89	1548
	124.0	125.0	3.470A	3.463	33.325A	2653	2653	1464.4A	227	133	1521
	148.8	150.0	3.939A	3.929	33.426A	2656	2657	1466.9A	265	185	1492
	173.5	175.0	4.354A	4.341	33.507A	2659	2659	1469.2A	303	247	1475

CRUISE NUMBER 71038

STATION NUMBER 013

LAT	N51 14.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	040	HW	01	COUN	18
LONG	W 57 4.00	MONTH	11	SWEL-P/H	02	WIND-SPD	05	CLO-A	6	INST	10
DEPTH	55.0	DAY	22	SWEL-D	040	AIR-TEM	1.1			RESTR	
MARSD SQ	186	H/M	0852	BARO	1000.0	WET-BLE				UNAS	016

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0852	0.0	0.00	1.000P	1.000	32.390P	2597	2597	1450.20	0	0	2042
0852	5.0	5.00	0.980P	0.980	32.350P	2594	2594	1450.20	10	0	2071
0852	10.0	10.10	0.950P	0.950	32.360P	2595	2595	1450.10	21	1	2062
0852	15.0	15.10	0.880P	0.879	32.420P	2600	2600	1450.00	31	2	2012
0852	20.0	20.20	0.900P	0.899	32.450P	2603	2603	1450.20	41	4	1991
0852	25.0	25.20	0.890P	0.889	32.470P	2604	2604	1450.20	51	7	1975
0852	30.0	30.20	0.900P	0.899	32.480P	2605	2605	1450.40	61	9	1968
0852	40.0	40.30	0.900P	0.898	32.490P	2606	2606	1450.60	81	16	1960
0852	50.0	50.40	0.830P	0.828	32.520P	2609	2609	1450.50	100	26	1933

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.000	1.000	32.390	2597	2597	1450.2	0	0	2042
	9.9	10.0	0.951A	0.951	32.359A	2595	2595	1450.1W	21	1	2063
	19.8	20.0	0.900A	0.899	32.449A	2603	2603	1450.2W	41	4	1992
	29.8	30.0	0.900W	0.899	32.480A	2605	2605	1450.4W	61	9	1968
	49.6	50.0	0.833W	0.831	32.519W	2609	2609	1450.5W	99	26	1934

CRUISE NUMBER 71038

STATION NUMBER 014

LAT N51 11.30	YEAR 1971	WAVE-P/H 02	WIND-DIR 040	WW 21	COUN 18
LONG W 57 57.00	MONTH 11	SWEL-P/H 02	WIND-SPD 05	CLO-A 6	INST 10
DEPTH 159.0	DAY 22	SWEL-D 040	AIR-TEM 3.3		RESTR
MARSD SQ 106	H/M 1220	BARO 999.7	WET-BLB		UNAS 017

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
		0.0C	3.750P	3.750	32.030P	2547	2547	1461.8C	0	0	2516
1220	0.0	0.0C	3.770P	3.770	32.030P	2547	2547	1462.0C	13	0	2518
1220	5.0	5.0C	3.820P	3.819	32.040P	2548	2548	1462.3C	25	1	2515
1220	10.0	10.1C	3.850P	3.849	32.050P	2548	2548	1462.5C	38	3	2510
1220	15.0	15.1C	3.850P	3.849	32.060P	2549	2549	1462.6C	51	5	2503
1220	20.0	20.2C	3.850P	3.849	32.060P	2550	2550	1462.2C	63	8	2494
1220	25.0	25.2C	3.750P	3.748	32.060P	2551	2551	1461.9C	76	12	2486
1220	30.0	30.2C	3.650P	3.648	32.070P	2554	2554	1460.8C	101	21	2452
1220	40.0	40.3C	3.350P	3.348	32.070P	2556	2556	1459.9C	125	32	2432
1220	50.0	50.4C	3.100P	3.097	32.070P	2582	2582	1455.1C	184	69	2186
1220	75.0	75.6C	1.850P	1.846	32.270P	2620	2620	1452.3C	234	114	1821
1220	100.0	100.8C	1.000P	0.996	32.680P	2627	2627	1452.1C	279	166	1759
1220	125.0	126.0C	0.860P	0.855	32.750P	2627	2627	1452.6C	323	229	1735
1220	150.0	151.3C	0.850P	0.844	32.780P	2629	2629				

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
								1461.8	0	0	2516
	0.0	0.0	3.750	3.750	32.030	2547	2547	1462.3A	25	1	2515
	9.9	10.0	3.819A	3.818	32.040W	2548	2548	1462.6A	51	5	2503
	19.8	20.0	3.850W	3.849	32.060W	2549	2549	1461.9A	75	12	2486
	29.8	30.0	3.654A	3.652	32.060W	2551	2551	1459.9A	124	32	2432
	49.0	50.0	3.112A	3.109	32.070W	2556	2556	1455.2A	183	68	2194
	74.4	75.0	1.875A	1.871	32.265W	2581	2581	1452.4A	232	112	1821
	99.2	100.0	1.017A	1.013	32.672A	2619	2619	1452.1A	277	164	1759
	124.0	125.0	0.863A	0.858	32.748A	2627	2627	1452.6W	321	226	1735
	148.7	150.0	0.851W	0.845	32.778W	2629	2629				



CRUISE NUMBER 71338

STATION NUMBER 015

LAT	N50 55.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	040	HW	03	COUN	18
LONG W	58 31.00	MONTH	11	SWEL-P/H	02	WIND-SPD	05	CLD-A	6	INST	10
DEPTH	137.0	DAY	22	SWEL-O	040	AIR-TEM	3.3			RESTR	
MARSD SQ	186	H/M	1510	BARO	998.8	WET-BLB				UNAS	018

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1510	0.0	0.0C	4.000P	4.000	31.970P	2540	2540	1462.8C	0	0	2584
1510	5.0	5.0C	3.980P	3.980	31.970P	2540	2540	1462.8C	13	0	2582
1510	10.0	10.1C	3.980P	3.979	31.970P	2540	2540	1462.9C	26	1	2582
1510	15.0	15.1C	4.020P	4.019	31.980P	2541	2541	1463.1C	39	3	2579
1510	20.0	20.2C	4.080P	4.079	31.990P	2541	2541	1463.5C	52	5	2577
1510	25.0	25.2C	4.120P	4.118	32.000P	2541	2541	1463.7C	65	8	2574
1510	30.0	30.2C	4.000P	3.998	32.040P	2546	2546	1463.4C	78	12	2533
1510	40.0	40.3C	3.900P	3.897	32.070P	2549	2549	1463.1C	103	21	2501
1510	50.0	50.4C	3.470P	3.467	32.080P	2554	2554	1461.5C	128	33	2456
1510	75.0	75.6C	2.850P	2.846	32.270P	2574	2574	1459.5C	188	71	2261
1510	100.0	100.8C	1.000P	0.996	32.670P	2620	2620	1452.3C	239	117	1828
1510	125.0	126.0C	0.900P	0.895	32.790P	2630	2630	1452.4C	284	169	1731

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	4.000	4.000	31.970	2540	2540	1462.8	0	0	2584
	9.9	10.0	3.980W	3.979	31.970W	2540	2540	1462.9W	26	1	2582
	19.8	20.0	4.078A	4.077	31.990A	2541	2541	1463.5A	51	5	2577
	29.8	30.0	4.004A	4.002	32.039A	2546	2546	1463.4A	77	12	2534
	49.6	50.0	3.486A	3.483	32.079A	2554	2554	1461.6A	127	32	2458
	74.4	75.0	2.878B	2.874	32.263A	2573	2573	1459.6A	187	70	2268
	99.2	100.0	1.032B	1.028	32.662A	2619	2619	1452.4A	237	115	1837
	124.0	125.0	0.904W	0.899	32.785W	2630	2630	1452.4W	282	167	1735

CRUISE NUMBER 71038

STATION NUMBER 016

LAT	N50 28.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	180	HW	03	COUN	18
LONG	W 59 13.30	MONTH	11	SWEL-P/H	04	WIND-SPD	10	CLO-A	7	INST	10
DEPTH	140.0	DAY	22	SWEL-D	160	AIR-TEM	5.6			RESTR	
MARSD	SQ	H/M	1910	BARO	998.8	WET-BLE				UNAS	019

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1910	0.0	0.0C	3.220P	3.220	32.120P	2559	2559	1459.6C	0	0	2402
1910	5.0	5.0C	3.300P	3.300	32.100P	2557	2557	1460.0C	12	0	2424
1910	10.0	10.0C	3.210P	3.219	32.090P	2557	2557	1459.8C	24	1	2425
1910	15.0	15.1C	3.220P	3.219	32.090P	2557	2557	1459.9C	37	5	2425
1910	20.0	20.2C	3.210P	3.209	32.090P	2557	2557	1459.9C	49	5	2425
1910	25.0	25.2C	3.210P	3.189	32.100P	2558	2558	1460.0C	61	8	2417
1910	30.0	30.2C	3.200P	3.198	32.110P	2559	2559	1460.0C	73	11	2409
1910	40.0	40.3C	3.200P	3.198	32.130P	2560	2560	1460.2C	97	21	2394
1910	50.0	50.4C	3.150P	3.147	32.170P	2564	2564	1460.2C	121	31	2300
1910	75.0	75.6C	2.000P	1.996	32.460P	2596	2596	1456.4C	177	87	2053
1910	100.0	100.8C	1.290P	1.286	32.720P	2622	2622	1453.6C	226	110	1895
1910	125.0	126.0C	1.340P	1.334	32.820P	2630	2630	1454.4C	270	152	1739

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.220	3.220	32.120	2559	2559	1459.6	0	0	2402
	9.9	10.0	3.222W	3.221	32.090W	2557	2557	1459.8A	24	1	2425
	19.8	20.0	3.210W	3.209	32.090W	2557	2557	1459.9W	49	5	2425
	29.8	30.0	3.200W	3.198	32.110A	2559	2559	1460.0W	73	11	2409
	49.6	50.0	3.152W	3.149	32.168A	2564	2564	1460.2W	120	31	2362
	74.4	75.0	2.022A	2.018	32.453A	2595	2595	1456.1W	170	86	2060
	99.2	100.0	1.291W	1.293	32.714A	2621	2621	1453.6A	225	109	1813
	124.0	125.0	1.338W	1.332	32.816W	2630	2630	1454.4W	268	150	1738

CRUISE NUMBER 71038

STATION NUMBER 017

LAT	N50	2.00	YEAR	1971	WAVE-P/H	0202	WIND-DIR	000	WW	02	COUN	18
LONG	W 62	43.05	MONTH	11	SWEL-P/H	04	WIND-SPD	08	CLO-A	7	INST	10
DEPTH		134.0	DAY	23	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSD	SQ	187	H/M	1338	BARO	1001.5	WET-BLB				UNAS	023

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1338	0.0	0.00	2.230P	2.230	31.300P	2502	2502	1454.2C	0	0	2948
1338	5.0	5.00	2.260P	2.260	31.310P	2503	2503	1454.4C	15	0	2943
1338	10.0	10.10	2.260P	2.259	31.330P	2504	2504	1454.6C	30	2	2927
1338	15.0	15.10	2.270P	2.269	31.350P	2506	2506	1454.7C	44	3	2913
1338	20.0	20.20	2.280P	2.279	31.370P	2507	2507	1454.9C	59	6	2898
1338	25.0	25.20	2.280P	2.279	31.400P	2510	2510	1455.0C	74	9	2876
1338	30.0	30.20	2.230P	2.228	31.430P	2512	2512	1454.9C	88	13	2849
1338	40.0	40.30	2.130P	2.128	31.520P	2520	2520	1454.7C	116	24	2774
1338	50.0	50.40	2.000P	1.998	31.650P	2532	2532	1454.5C	144	36	2667
1338	75.0	75.60	1.160P	1.157	32.140P	2576	2576	1451.8C	205	76	2241
1338	100.0	100.80	1.070P	1.066	32.190P	2581	2581	1451.9C	261	126	2197
1338	120.0	121.00	0.790P	0.785	32.330P	2594	2594	1451.2C	304	174	2074

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.230	2.230	31.300	2502	2502	1454.2	0	0	2948
	9.9	10.0	2.260W	2.259	31.330A	2504	2504	1454.6A	30	2	2927
	19.8	20.0	2.280W	2.279	31.369A	2507	2507	1454.9A	58	6	2899
	29.8	30.0	2.232W	2.230	31.429A	2512	2512	1454.9W	87	13	2850
	49.6	50.0	2.007A	2.005	31.644A	2531	2531	1454.5A	143	35	2672
	74.4	75.0	1.171A	1.168	32.133A	2575	2575	1451.8A	204	75	2247
	99.2	100.0	1.077A	1.073	32.186A	2581	2581	1451.9A	259	124	2200

CRUISE NUMBER 71038

STATION NUMBER 018

LAT	N50	2.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	310	WW	02	COUN	18
LONG	W 64	4.00	MONTH	11	SWEL-P/H	03	WIND-SFD	10	CLO-A	6	INST	10
DEPTH		100.0	DAY	23	SWEL-D	310	AIR-TEM	-4.4			RESTR	
MARSD	SQ	187	H/M	1820	BARO	1001.9	WET-BLB				UNAS	024

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1820	0.0	0.00	2.320P	2.320	30.910P	2470	2470	1454.1C	0	0	3250
1820	5.0	5.00	2.320P	2.320	31.000P	2477	2477	1454.3C	16	0	3182
1820	10.0	10.10	2.320P	2.319	31.000P	2477	2477	1454.4C	32	2	3182
1820	15.0	15.10	2.320P	2.319	31.000P	2477	2477	1454.5C	48	4	3182
1820	20.0	20.20	2.320P	2.319	31.010P	2478	2478	1454.6C	64	7	3174
1820	25.0	25.20	2.320P	2.319	31.010P	2478	2478	1454.6C	80	10	3174
1820	30.0	30.20	2.330P	2.328	31.010P	2478	2478	1454.8C	96	15	3175
1820	40.0	40.30	2.350P	2.348	31.090P	2484	2484	1455.1C	128	26	3116
1820	50.0	50.40	1.790P	1.788	31.580P	2527	2527	1453.5C	158	40	2706
1820	75.0	75.60	1.350P	1.347	31.810P	2549	2549	1452.2C	222	81	2503
1820	90.0	90.70	1.270P	1.266	31.970P	2562	2562	1452.3C	259	112	2376

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.320	2.320	30.910	2470	2470	1454.1	0	0	3250
	9.9	10.0	2.320W	2.319	31.000W	2477	2477	1454.4A	32	2	3182
	19.8	20.0	2.320W	2.319	31.010W	2478	2478	1454.6W	63	7	3174
	29.8	30.0	2.330W	2.328	31.010W	2478	2478	1454.8W	95	15	3175
	49.6	50.0	1.810B	1.808	31.563B	2525	2525	1453.6A	157	39	2720
	74.4	75.0	1.355A	1.352	31.304A	2548	2548	1452.2A	221	80	2508



## CRUISE NUMBER 71038 STATION NUMBER 019

LAT	N50	8.00	YEAR	1971	WAVE-P/H	0202	WIND-DIR	310	WW	02	COUN	18
LONG	W 65	15.00	MONTH	11	SWEL-P/H	02	WIND-SFD	08	CLD-A	5	INST	10
DEPTH		118.0	DAY	23	SWEL-D	310	AIR-TEM	-6.1			RESTR	
MARSD	SQ	187	H/M	2232	BARO	1002.6	WET-BLB				UNAS	025

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2232	0.0	0.0C	2.220P	2.220	30.990P	2477	2477	1453.8C	0	0	3183
2232	5.0	5.0C	2.230P	2.230	31.040P	2481	2481	1453.9C	16	0	3145
2232	10.0	10.1C	2.240P	2.240	31.070P	2484	2484	1454.1C	32	2	3123
2232	15.0	15.1C	2.190P	2.189	31.090P	2485	2485	1454.0C	47	4	3105
2232	20.0	20.2C	1.520P	1.519	31.440P	2518	2518	1451.6C	63	6	2796
2232	25.0	25.2C	1.250P	1.249	31.790P	2548	2548	1450.9C	76	9	2513
2232	30.0	30.2C	0.960P	0.959	32.010P	2567	2567	1450.0C	88	13	2329
2232	40.0	40.3C	0.880P	0.878	32.170P	2580	2580	1450.0C	111	21	2203
2232	50.0	50.4C	0.780P	0.778	32.280P	2590	2590	1449.9C	132	31	2113
2232	75.0	75.6C	0.820P	0.817	32.490P	2606	2606	1450.8C	183	64	1955
2232	100.0	100.8C	1.000P	0.996	32.560P	2611	2611	1452.1C	232	107	1912
2232	110.0	110.9C	1.020P	1.015	32.570P	2612	2612	1452.4C	251	128	1905

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.220	2.220	30.990	2477	2477	1453.8	0	0	3183
	9.9	10.0	2.240A	2.240	31.070A	2484	2484	1454.1A	32	2	3123
	19.8	20.0	1.539A	1.538	31.426A	2517	2517	1451.7A	62	6	2808
	29.8	30.0	0.970A	0.969	32.003A	2566	2566	1450.0W	88	13	2335
	49.6	50.0	0.783A	0.781	32.276A	2590	2590	1449.9W	131	31	2116
	74.4	75.0	0.817A	0.814	32.487A	2606	2606	1450.8A	182	63	1957
	99.2	100.0	0.996A	0.992	32.559A	2611	2611	1452.1A	230	105	1913

CRUISE NUMBER 71038

STATION NUMBER 020

LAT	N50	2.00	YEAR	1971	WAVE-P/H	0202	WIND-DIR	310	WW	02	COUN	18
LONG	W 66	20.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLO-A	5	INST	10
DEPTH		122.0	DAY	24	SWEL-D	310	AIR-TEM	-6.1			RESTR	
MARSD	SQ	188	H/M	0215	BARO	1002.7	WET-BLB				UNAS	026

## OBSERVED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0215	0.0	0.00	1.650P	1.650	30.890P	2473	2473	1451.1C	0	0	3222
0215	5.0	5.00	1.690P	1.690	30.940P	2477	2477	1451.4C	16	0	3187
0215	10.0	10.10	1.700P	1.700	31.000P	2482	2482	1451.6C	32	2	3141
0215	15.0	15.10	1.780P	1.779	31.090P	2488	2488	1452.2C	48	4	3078
0215	20.0	20.20	1.840P	1.839	31.180P	2495	2495	1452.7C	63	6	3013
0215	25.0	25.20	1.840P	1.839	31.230P	2499	2499	1452.8C	78	10	2975
0215	30.0	30.20	1.800P	1.799	31.290P	2504	2504	1452.8C	93	14	2927
0215	40.0	40.30	1.790P	1.788	31.350P	2509	2509	1453.0C	122	25	2881
0215	50.0	50.40	2.000P	1.998	31.480P	2518	2518	1454.3C	151	38	2796
0215	75.0	75.60	1.530P	1.527	31.970P	2560	2560	1453.3C	216	80	2393
0215	100.0	100.80	1.250P	1.246	32.230P	2583	2583	1452.8C	274	131	2178
0215	110.0	110.90	1.300P	1.295	32.330P	2591	2591	1453.3C	295	154	2105

## INTERPOLATED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.650	1.650	30.890	2473	2473	1451.1	0	0	3222
	9.9	10.0	1.699A	1.699	30.999A	2482	2482	1451.6A	32	2	3142
	19.8	20.0	1.838W	1.837	31.177A	2495	2495	1452.7A	62	6	3016
	29.8	30.0	1.802W	1.801	31.288A	2504	2504	1452.8W	92	14	2929
	49.6	50.0	1.994B	1.992	31.474A	2518	2518	1454.3A	150	37	2800
	74.4	75.0	1.539A	1.536	31.961A	2559	2559	1453.3A	215	79	2400
	99.2	100.0	1.252A	1.248	32.222A	2582	2582	1452.8W	272	129	2184

## CRUISE NUMBER 71038

## STATION NUMBER 021

LAT	N49 48.00	YEAR	1971	WAVE-P/H	0202	WIND-DIR	310	NW	02	COUN	18
LONG	W 66 20.05	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	293.0	DAY	24	SWEL-D	310	AIR-TEM	-6.1			RESTR	
MARSD	SQ 151	H/M	0340	BARO	1003.0	WET-BLB				UNAS	027

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0340	0.0	0.0C	1.390P	1.390	31.470P	2521	2521	1450.7C	0	0	2765
0340	5.0	5.0C	1.390P	1.390	31.470P	2521	2521	1450.8C	14	0	2765
0340	10.0	10.1C	1.390P	1.390	31.480P	2522	2522	1450.9C	28	1	2757
0340	15.0	15.1C	1.390P	1.389	31.490P	2523	2523	1451.0C	42	3	2750
0340	20.0	20.2C	1.400P	1.399	31.490P	2523	2523	1451.1C	56	6	2750
0340	25.0	25.2C	1.400P	1.399	31.490P	2523	2523	1451.2C	69	9	2750
0340	30.0	30.2C	1.400P	1.399	31.500P	2524	2524	1451.3C	83	13	2743
0340	40.0	40.3C	0.850P	0.848	32.350P	2595	2595	1450.1C	107	21	2064
0340	50.0	50.4C	1.160P	1.158	32.570P	2611	2611	1452.0C	127	31	1914
0340	75.0	75.6C	1.570P	1.566	32.970P	2640	2640	1454.8C	172	59	1636
0340	100.0	100.8C	2.220P	2.215	33.270P	2659	2659	1458.5C	211	94	1456
0340	125.0	126.0C	2.930P	2.922	33.560P	2677	2677	1462.4C	245	134	1296
0340	150.0	151.2C	3.320P	3.310	33.780P	2691	2691	1464.8C	276	177	1167
0340	175.0	176.4C	3.720P	3.708	34.010P	2705	2705	1467.2C	304	224	1034
0340	200.0	201.7C	4.040P	4.026	34.190P	2716	2716	1469.2C	329	271	933
0340	225.0	226.9C	4.500P	4.483	34.300P	2720	2720	1471.7C	352	322	902
0340	250.0	252.1C	4.700P	4.681	34.420P	2727	2727	1473.1C	374	375	836
0340	280.0	282.4C	4.680P	4.658	34.510P	2735	2735	1473.6C	398	441	770

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.390	1.390	31.470	2521	2521	1450.7	0	0	2765
	9.9	10.0	1.390W	1.390	31.480W	2522	2522	1450.9A	28	1	2757
	19.8	20.0	1.400W	1.399	31.490W	2523	2523	1451.1A	55	6	2750
	29.8	30.0	1.400W	1.399	31.500W	2524	2524	1451.3A	82	13	2743
	49.6	50.0	1.1488	1.146	32.562A	2610	2610	1451.9A	126	31	1919
	74.4	75.0	1.557A	1.554	32.962A	2639	2639	1454.7A	171	58	1641
	99.2	100.0	2.198A	2.193	33.261A	2658	2658	1458.4A	210	93	1461
	124.0	125.0	2.907A	2.899	33.550A	2676	2676	1462.3A	244	132	1302
	148.8	150.0	3.301A	3.291	33.769A	2690	2690	1464.7A	275	175	1173
	173.6	175.0	3.699A	3.687	33.998A	2704	2704	1467.1A	303	221	1041
	198.3	200.0	4.014A	4.001	34.180A	2715	2715	1469.1A	327	268	938
	223.1	225.0	4.473B	4.457	34.291A	2720	2720	1471.5A	350	318	906
	247.9	250.0	4.693A	4.674	34.411A	2726	2726	1473.0A	372	371	841

CRUISE NUMBER 71038

STATION NUMBER 022

LAT	N49 36.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	HW	02	COUN	18
LONG	W 66 20.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	301.0	DAY	24	SWEL-D	310	AIR-TEM	-6.1			RESTR	
MARSD	SQ 151	H/M	0452	BARO	1003.1	WET-BLB				UNAS	028

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0452	0.0	0.00	1.510P	1.510	31.250P	2503	2503	1451.00	0	0	2940
0452	5.0	5.00	1.510P	1.510	31.260P	2504	2504	1451.00	15	0	2932
0452	10.0	10.10	1.500P	1.500	31.280P	2505	2505	1451.10	30	2	2916
0452	15.0	15.10	1.500P	1.499	31.290P	2506	2506	1451.20	44	3	2909
0452	20.0	20.20	1.490P	1.489	31.300P	2507	2507	1451.30	59	6	2900
0452	25.0	25.20	1.430P	1.429	31.320P	2509	2509	1451.10	74	9	2881
0452	30.0	30.20	0.980P	0.979	32.250P	2586	2586	1450.40	86	13	2147
0452	40.0	40.30	0.700P	0.698	32.470P	2605	2605	1449.60	107	20	1964
0452	50.0	50.40	0.790P	0.788	32.570P	2613	2613	1450.30	126	29	1893
0452	75.0	75.60	1.570P	1.566	32.960P	2639	2639	1454.80	171	58	1644
0452	100.0	100.80	2.440P	2.434	33.360P	2665	2665	1459.60	209	92	1405
0452	125.0	126.00	3.270P	3.262	33.670P	2682	2682	1464.00	243	131	1243
0452	150.0	151.10	4.140P	4.130	33.920P	2698	2698	1466.60	272	172	1098
0452	175.0	176.40	4.010P	3.998	34.070P	2707	2707	1468.50	299	216	1018
0452	200.0	201.70	4.280P	4.265	34.200P	2714	2714	1470.20	324	264	950
0452	250.0	252.10	4.670P	4.651	34.470P	2731	2732	1473.10	367	366	796
0452	300.0	302.60	4.620P	4.597	34.590P	2742	2742	1473.80	405	473	706

## I N T E R P O L A T I O

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.510	1.510	31.250	2503	2503	1451.0	0	0	2940
	9.9	10.0	1.500W	1.500	31.280A	2505	2505	1451.1W	30	2	2916
	19.8	20.0	1.490W	1.490	31.300A	2507	2507	1451.3W	58	6	2901
	29.8	30.0	0.996B	0.995	32.2190	2583	2583	1450.4A	86	13	2171
	49.6	50.0	0.782A	0.780	32.566A	2613	2613	1450.2A	125	29	1896
	74.4	75.0	1.550A	1.546	32.951A	2638	2638	1454.7A	170	57	1650
	99.2	100.0	2.413A	2.407	33.348A	2664	2664	1459.5A	208	91	1412
	124.0	125.0	3.243A	3.235	33.659A	2681	2681	1463.9A	242	129	1249
	148.8	150.0	3.692A	3.683	33.910A	2697	2697	1466.5A	271	170	1104
	173.6	175.0	3.994A	3.982	34.062A	2707	2707	1468.4A	298	213	1022
	198.3	200.0	4.263A	4.248	34.191A	2714	2714	1470.1A	322	261	955
	223.1	225.0	4.501D	4.484	34.324B	2722	2722	1471.7A	345	310	882
	247.9	250.0	4.662A	4.643	34.460A	2730	2731	1473.0A	365	362	801
	297.4	300.0	4.623W	4.600	34.584W	2741	2741	1473.8W	403	467	711



CRUISE NUMBER 71038

STATION NUMBER 023

LAT	N49 25.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	HW	02	COUN	18
LONG	W 66 20.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	310.0	DAY	24	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSD	SQ 151	H/M	0554	BARO	1003.2	WET-BLB				UNAS	029

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0554	0.0	0.0C	1.420P	1.420	31.280P	2506	2506	1450.6C	0	0	2912
0554	5.0	5.0C	1.420P	1.420	31.290P	2507	2507	1450.7C	15	0	2904
0554	10.0	10.1C	1.420P	1.420	31.290P	2507	2507	1450.8C	29	2	2904
0554	15.0	15.1C	1.420P	1.419	31.290P	2507	2507	1450.8C	44	3	2904
0554	20.0	20.2C	1.420P	1.419	31.300P	2507	2507	1450.9C	59	6	2896
0554	25.0	25.2C	1.420P	1.419	31.300P	2507	2507	1451.0C	73	9	2896
0554	30.0	30.2C	1.550P	1.549	31.380P	2513	2513	1451.8C	88	13	2843
0554	40.0	40.3C	0.700P	0.698	32.150P	2580	2580	1449.2C	113	23	2208
0554	50.0	50.4C	0.510P	0.508	32.350P	2597	2597	1448.8C	134	32	2046
0554	75.0	75.6C	1.190P	1.187	32.860P	2634	2634	1453.0C	181	62	1695
0554	100.0	100.8C	2.100P	2.095	33.230P	2657	2657	1457.9C	221	98	1477
0554	125.0	126.0C	2.720P	2.713	33.480P	2672	2672	1461.4C	257	139	1339
0554	150.0	151.2C	3.180P	3.171	33.720P	2687	2687	1464.1C	289	184	1199
0554	175.0	176.4C	3.570P	3.558	33.920P	2699	2699	1466.5C	317	232	1087
0554	200.0	201.7C	4.150P	4.135	34.150P	2712	2712	1469.6C	343	282	974
0554	225.0	226.9C	4.500P	4.483	34.290P	2719	2719	1471.7C	367	334	909
0554	250.0	252.1C	4.540P	4.521	34.430P	2730	2730	1472.5C	389	386	811
0554	300.0	302.6C	4.600P	4.577	34.590P	2742	2742	1473.8C	427	494	704

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.420	1.420	31.280	2506	2506	1450.6	0	0	2912
	9.9	10.0	1.420W	1.420	31.290W	2507	2507	1450.8W	29	2	2904
	19.8	20.0	1.420W	1.419	31.300W	2507	2507	1450.9W	58	6	2896
	29.8	30.0	1.545W	1.544	31.377W	2513	2513	1451.8A	87	13	2845
	49.6	50.0	0.508B	0.506	32.342A	2596	2596	1448.8A	133	32	2052
	74.4	75.0	1.171A	1.168	32.849A	2633	2633	1452.9A	180	61	1702
	99.2	100.0	2.076A	2.071	33.220A	2656	2656	1457.8A	220	97	1483
	124.0	125.0	2.699A	2.692	33.470A	2671	2671	1461.3A	256	137	1345
	148.8	150.0	3.160A	3.151	33.709A	2686	2686	1464.0A	288	182	1206
	173.6	175.0	3.544A	3.532	33.908A	2698	2698	1466.4A	316	229	1093
	198.3	200.0	4.118A	4.103	34.137A	2711	2711	1469.4A	341	279	981
	223.1	225.0	4.484A	4.467	34.279A	2718	2718	1471.6A	365	330	915
	247.9	250.0	4.537A	4.518	34.418A	2729	2729	1472.4A	387	382	818
	297.4	300.0	4.597W	4.574	34.582W	2741	2741	1473.7W	425	488	710

CRUISE NUMBER 71038

STATION NUMBER 024

LAT N49 15.00	YEAR 1971	WAVE-P/H 02	WIND-DIR 310	WW 02	COUN 18
LONG W 66 20.00	MONTH 11	SWEL-P/H 02	WIND-SPD 05	CLD-A 5	INST 10
DEPTH 220.0	DAY 24	SWEL-D 310	AIR-TEM -6.7		RESTR
MARSD SQ 151	H/M 0656	BARO 1003.2	WET-BLB		UNAS 030

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0656	0.0	1.000	1.040P	1.040	29.350P	2353	2353	1446.2C	0	0	4364
0656	5.0	5.00	1.190P	1.190	29.390P	2356	2356	1447.0C	22	1	4341
0656	10.0	10.10	1.190P	1.190	30.110P	2413	2413	1448.1C	43	2	3791
0656	15.0	15.10	1.410P	1.409	30.880P	2474	2474	1450.2C	60	4	3215
0656	20.0	20.20	1.350P	1.349	31.080P	2490	2490	1450.3C	76	7	3060
0656	25.0	25.20	1.300P	1.299	31.180P	2498	2499	1450.3C	91	11	2980
0656	30.0	30.20	1.330P	1.329	31.250P	2504	2504	1450.6C	106	15	2929
0656	40.0	40.30	1.810P	1.808	31.760P	2542	2542	1453.6C	134	25	2570
0656	50.0	50.40	1.510P	1.508	32.070P	2568	2568	1452.9C	155	36	2316
0656	75.0	75.60	1.010P	1.007	32.390P	2597	2597	1451.5C	213	71	2042
0656	100.0	100.80	1.280P	1.276	32.690P	2620	2620	1453.5C	262	115	1830
0656	125.0	126.00	1.800P	1.794	33.060P	2646	2646	1456.8C	304	164	1585
0656	150.0	151.20	2.320P	2.312	33.320P	2662	2663	1459.8C	342	218	1423
0656	175.0	176.40	3.070P	3.059	33.680P	2685	2685	1464.0C	376	273	1221
0656	200.0	201.70	3.480P	3.467	33.860P	2695	2695	1466.4C	405	330	1125
0656	210.0	211.80	3.600P	3.586	33.810P	2698	2698	1467.2C	417	354	1100

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.040	1.040	29.350	2353	2353	1446.2	0	0	4364
	9.9	10.0	1.190W	1.190	30.095A	2412	2412	1448.1A	43	2	3802
	19.8	20.0	1.352A	1.351	31.074A	2490	2490	1450.3W	75	7	3065
	29.8	30.0	1.327A	1.326	31.245A	2504	2504	1450.6W	105	15	2932
	49.6	50.0	1.522B	1.520	32.061A	2567	2567	1452.9A	157	36	2324
	74.4	75.0	1.014A	1.011	32.383A	2596	2596	1451.5A	212	70	2048
	99.2	100.0	1.267A	1.263	32.680A	2619	2619	1453.4A	261	114	1837
	124.0	125.0	1.779A	1.773	33.047A	2645	2645	1456.7A	302	162	1593
	148.8	150.0	2.295A	2.287	33.305A	2661	2662	1459.6A	340	215	1437
	173.6	175.0	3.037A	3.026	33.664A	2684	2684	1463.8A	374	270	1230
	198.3	200.0	3.490A	3.445	33.851A	2694	2694	1466.3A	403	326	1130

## CRUISE NUMBER 71038 STATION NUMBER 025

LAT	N49 26.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	310	WW	02	COUN	18
LONG	W 65 37.00	MONTH	11	SWEL-P/H	03	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	320.0	DAY	24	SWEL-D	310	AIR-TEM	-6.1			RESTR	
MARSD	SQ 151	H/M	0940	BARO	1003.3	WET-BLB				UNAS	031

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0940	0.0	0.00	1.150P	1.150	31.280P	2507	2507	1449.4C	0	0	2896
0940	5.0	5.00	1.210P	1.210	31.280P	2507	2507	1449.7C	14	0	2900
0940	10.0	10.10	1.170P	1.170	31.280P	2507	2507	1449.6C	29	2	2897
0940	15.0	15.10	1.170P	1.169	31.290P	2508	2508	1449.7C	44	3	2890
0940	20.0	20.20	1.180P	1.179	31.300P	2509	2509	1449.9C	58	6	2882
0940	25.0	25.20	1.180P	1.179	31.300P	2509	2509	1449.9C	73	9	2882
0940	30.0	30.20	1.000P	0.999	31.670P	2539	2539	1449.7C	87	13	2590
0940	40.0	40.30	0.710P	0.708	32.480P	2606	2606	1449.7C	109	21	1957
0940	50.0	50.40	0.920P	0.918	32.650P	2619	2619	1451.0C	128	30	1839
0940	75.0	75.60	1.570P	1.566	33.000P	2642	2642	1454.9C	172	58	1614
0940	100.0	100.80	2.340P	2.335	33.340P	2664	2664	1459.1C	210	92	1413
0940	125.0	126.00	3.000P	2.992	33.620P	2681	2681	1462.8C	244	131	1257
0940	150.0	151.20	3.430P	3.420	33.850P	2695	2695	1465.4C	274	173	1124
0940	175.0	176.40	4.020P	4.008	34.090P	2708	2708	1468.6C	300	217	1004
0940	200.0	201.70	4.450P	4.435	34.270P	2718	2718	1471.1C	325	264	916
0940	225.0	226.90	4.480P	4.463	34.330P	2722	2723	1471.7C	347	313	877
0940	250.0	252.10	4.470P	4.451	34.450P	2732	2732	1472.2C	368	365	789
0940	300.0	302.60	4.480P	4.457	34.470P	2734	2734	1473.1C	408	477	780

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.150	1.150	31.280	2507	2507	1449.4	0	0	2896
	9.9	10.0	1.171W	1.170	31.280W	2507	2507	1449.6W	29	2	2897
	19.8	20.0	1.180W	1.179	31.300W	2509	2509	1449.9W	57	6	2882
	29.8	30.0	1.007W	1.006	31.655W	2538	2538	1449.7W	86	13	2602
	49.6	50.0	0.911A	0.909	32.644A	2619	2619	1450.9W	127	30	1843
	74.4	75.0	1.553A	1.549	32.992A	2641	2641	1454.8A	171	57	1619
	99.2	100.0	2.317A	2.312	33.330A	2663	2663	1459.0A	209	91	1419
	124.0	125.0	2.978A	2.970	33.610A	2680	2680	1462.7A	243	129	1263
	148.8	150.0	3.406A	3.396	33.839A	2694	2694	1465.3A	273	171	1130
	173.6	175.0	3.991A	3.980	34.078A	2707	2707	1468.4A	299	214	1010
	198.3	200.0	4.432B	4.417	34.261A	2717	2717	1471.0A	323	261	921
	223.1	225.0	4.479A	4.462	34.323A	2721	2722	1471.7A	345	309	882
	247.9	250.0	4.471W	4.452	34.442A	2731	2731	1472.2A	366	361	795
	297.4	300.0	4.479W	4.457	34.469W	2734	2734	1473.1W	406	471	780



## CRUISE NUMBER 71038 STATION NUMBER 026

LAT	N49 12.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	WW	02	COUN	18
LONG W	64 47.00	MONTH	11	SWEL-P/H	02	WIND-SFD	08	CLD-A	5	INST	10
DEPTH	220.0	DAY	24	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSO SQ	151	H/M	1255	BARO	1003.4	WET-BLB				UNAS	032

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1255	0.0	0.00	1.250P	1.250	30.110P	2413	2413	1448.2C	0	0	3794
1255	5.0	5.00	1.230P	1.230	30.100P	2412	2412	1448.2C	19	0	3801
1255	10.0	10.10	1.300P	1.300	30.450P	2440	2440	1449.1C	38	2	3537
1255	15.0	15.10	1.380P	1.379	30.610P	2452	2452	1449.7C	55	4	3419
1255	20.0	20.20	1.370P	1.369	31.020P	2485	2485	1450.3C	72	7	3106
1255	25.0	25.20	1.400P	1.399	31.080P	2490	2490	1450.6C	87	11	3062
1255	30.0	30.20	1.430P	1.429	31.090P	2491	2491	1450.9C	102	15	3056
1255	40.0	40.30	1.630P	1.628	31.280P	2504	2504	1452.2C	133	26	2924
1255	50.0	50.40	1.790P	1.788	31.490P	2520	2520	1453.3C	161	39	2774
1255	75.0	75.60	1.250P	1.247	32.600P	2613	2613	1452.9C	220	76	1897
1255	100.0	100.80	1.420P	1.415	32.930P	2638	2638	1454.5C	265	116	1657
1255	125.0	126.00	1.880P	1.874	33.120P	2650	2650	1457.2C	305	162	1545
1255	150.0	151.20	2.500P	2.491	33.420P	2669	2669	1460.8C	342	214	1367
1255	175.0	176.40	3.020P	3.009	33.630P	2681	2681	1463.7C	374	269	1254
1255	190.0	191.60	3.410P	3.398	33.760P	2688	2688	1465.8C	393	304	1193

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.250	1.250	30.110	2413	2413	1448.2	0	0	3794
	9.9	10.0	1.299A	1.299	30.445A	2440	2440	1449.1W	38	2	3541
	19.8	20.0	1.370A	1.369	31.010A	2484	2484	1450.3A	71	7	3113
	29.8	30.0	1.429A	1.428	31.089A	2491	2491	1450.9A	101	15	3057
	49.6	50.0	1.787A	1.785	31.480A	2519	2519	1453.3A	160	38	2781
	74.4	75.0	1.255A	1.252	32.583A	2612	2612	1452.9A	219	75	1911
	99.2	100.0	1.410A	1.405	32.922A	2637	2637	1454.4A	264	115	1663
	124.0	125.0	1.859A	1.853	33.110A	2649	2649	1457.1A	303	160	1551
	148.8	150.0	2.473A	2.464	33.408A	2668	2668	1460.6A	340	211	1374
	173.6	175.0	2.988A	2.977	33.618A	2680	2680	1463.5A	372	266	1260



## CRUISE NUMBER 71038 STATION NUMBER 027

LAT	N49 18.05	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	WW	02	COUN	18
LONG	W 64 45.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLO-A	5	INST	10
DEPTH	348.0	DAY	24	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSD SQ	151	H/M	1353	BARO	1003.4	WET-BLB				UNAS	033

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1353	0.0	0.0C	1.290P	1.290	31.360P	2513	2513	1450.1C	0	0	2843
1353	5.0	5.0C	1.290P	1.290	31.360P	2513	2513	1450.2C	14	0	2843
1353	10.0	10.1C	1.280P	1.280	31.360P	2513	2513	1450.2C	29	1	2842
1353	15.0	15.1C	1.280P	1.279	31.370P	2514	2514	1450.3C	43	3	2835
1353	20.0	20.2C	1.270P	1.269	31.370P	2514	2514	1450.4C	57	6	2834
1353	25.0	25.2C	1.270P	1.269	31.370P	2514	2514	1450.4C	72	9	2834
1353	30.0	30.2C	1.260P	1.259	31.370P	2514	2514	1450.5C	86	13	2833
1353	40.0	40.3C	1.500P	1.498	31.800P	2547	2547	1452.3C	113	23	2520
1353	50.0	50.4C	0.520P	0.518	32.390P	2600	2600	1448.9C	136	33	2016
1353	75.0	75.6C	1.160P	1.157	32.810P	2630	2630	1452.8C	183	63	1732
1353	100.0	100.8C	1.790P	1.785	33.140P	2652	2652	1456.4C	224	100	1523
1353	125.0	126.0C	2.800P	2.793	33.540P	2676	2676	1461.8C	260	141	1300
1353	150.0	151.2C	3.340P	3.330	33.800P	2692	2692	1464.9C	290	184	1154
1353	175.0	176.4C	3.760P	3.748	34.070P	2709	2709	1467.5C	317	229	993
1353	200.0	201.7C	4.020P	4.006	34.180P	2715	2716	1469.1C	342	276	938
1353	250.0	252.1C	4.310P	4.291	34.380P	2728	2728	1471.4C	386	378	824
1353	300.0	302.6C	4.530P	4.507	34.540P	2739	2739	1473.4C	425	489	733
1353	340.0	342.9C	4.780P	4.753	34.610P	2741	2742	1475.2C	454	585	713

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.290	1.290	31.360	2513	2513	1450.1	0	0	2843
	9.9	10.0	1.280W	1.280	31.360W	2513	2513	1450.2W	29	1	2842
	19.8	20.0	1.270W	1.269	31.370W	2514	2514	1450.4W	56	6	2834
	29.8	30.0	1.260W	1.259	31.370W	2514	2514	1450.5W	85	13	2833
	49.6	50.0	0.552C	0.550	32.370B	2598	2598	1449.0A	135	33	2033
	74.4	75.0	1.145A	1.142	32.801A	2629	2629	1452.7A	182	62	1738
	99.2	100.0	1.770A	1.765	33.128A	2651	2651	1456.3A	223	99	1530
	124.0	125.0	2.769A	2.762	33.527A	2675	2675	1461.6A	259	139	1308
	148.8	150.0	3.317A	3.307	33.787A	2691	2691	1464.8A	289	182	1161
	173.6	175.0	3.741A	3.729	34.055A	2708	2708	1467.4A	316	226	1000
	198.3	200.0	4.007A	3.993	34.173A	2715	2716	1469.0A	340	273	942
	223.1	225.0	4.177C	4.160	34.277A	2721	2722	1470.3A	363	322	886
	247.9	250.0	4.299A	4.281	34.372A	2727	2728	1471.3A	384	374	828
	297.4	300.0	4.516A	4.494	34.534A	2739	2739	1473.3A	423	483	736

## CRUISE NUMBER 71038 STATION NUMBER 028

LAT	N49 24.30	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	HW	02	COUN	18
LONG	W 64 40.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	356.0	DAY	24	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSD SQ	111	H/M	1440	BARO	1003.5	WET-BLE				UNAS	034

## OBSERVED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1440	0.0	0.00	1.520P	1.520	31.000P	2483	2483	1450.7C	0	0	3131
1440	5.0	5.00	1.520P	1.520	30.990P	2482	2482	1450.7C	16	0	3138
1440	10.0	10.10	1.520P	1.520	30.990P	2482	2482	1450.8C	32	2	3138
1440	15.0	15.10	1.490P	1.489	31.010P	2484	2484	1450.8C	47	4	3121
1440	20.0	20.20	1.430P	1.429	31.040P	2487	2487	1450.6C	63	6	3095
1440	25.0	25.20	1.400P	1.399	31.180P	2498	2498	1450.8C	79	10	2986
1440	30.0	30.20	0.740P	0.739	32.230P	2586	2586	1449.3C	91	14	2149
1440	40.0	40.30	0.780P	0.778	32.590P	2615	2615	1450.2C	112	21	1877
1440	50.0	50.40	0.990P	0.988	32.730P	2625	2625	1451.5C	130	29	1782
1440	75.0	75.60	1.520P	1.516	32.990P	2642	2642	1454.6C	173	57	1618
1440	100.0	100.60	2.220P	2.215	33.320P	2663	2663	1458.6C	211	91	1418
1440	125.0	126.00	2.820P	2.813	33.560P	2677	2678	1461.9C	245	130	1287
1440	150.0	151.20	3.290P	3.280	33.830P	2695	2695	1464.7C	276	173	1126
1440	175.0	176.40	3.690P	3.678	34.040P	2708	2708	1467.1C	302	218	1008
1440	200.0	201.70	3.900P	3.886	34.170P	2718	2716	1468.6C	327	265	934
1440	250.0	252.10	4.320P	4.301	34.410P	2731	2731	1471.5C	371	366	802
1440	300.0	302.60	4.780P	4.756	34.650P	2744	2745	1474.6C	408	470	679
1440	330.0	332.90	4.730P	4.704	34.650P	2746	2746	1474.9C	428	537	669

## INTERPOLATED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.520	1.520	31.000	2483	2483	1450.7	0	0	3131
	9.9	10.0	1.520W	1.520	30.990W	2482	2482	1450.8W	32	2	3138
	19.8	20.0	1.432A	1.431	31.017A	2487	2487	1450.6W	62	6	3097
	29.8	30.0	0.761C	0.760	32.195C	2583	2583	1449.3A	91	14	2177
	49.6	50.0	0.982A	0.980	32.725A	2625	2625	1451.4A	129	29	1785
	74.4	75.0	1.506A	1.501	32.986A	2642	2642	1454.5A	172	56	1622
	99.2	100.0	2.199A	2.194	33.311A	2662	2662	1458.5A	210	90	1423
	124.0	125.0	2.799A	2.792	33.550A	2676	2677	1461.8A	244	128	1293
	148.8	150.0	3.269A	3.259	33.818A	2694	2694	1464.6A	275	171	1133
	173.6	175.0	3.672A	3.660	34.030A	2707	2707	1467.0A	301	215	1013
	198.3	200.0	3.886A	3.872	34.162A	2715	2715	1468.5A	325	262	939
	223.1	225.0	4.094A	4.078	34.281A	2723	2723	1470.0A	348	311	871
	247.9	250.0	4.302A	4.283	34.400A	2730	2730	1471.4A	369	362	807
	297.4	300.0	4.735C	4.735	34.638A	2746	2745	1474.5A	436	464	682

CRUISE NUMBER 71038

STATION NUMBER 029

LAT	N49 32.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	WW	02	COUN	18
LONG	W 64 30.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	5	INST	10
DEPTH	274.0	DAY	24	SWEL-D	310	AIR-TEM	-5.0			RESTR	
MARSD	SQ 151	H/M	1548	BARO	1003.5	WET-BLB				UNAS	035

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1548	0.0	0.00	2.550P	2.550	30.650P	2448	2448	1454.7C	0	0	3464
1548	5.0	5.00	2.550P	2.550	30.650P	2448	2448	1454.8C	17	0	3464
1548	10.0	10.10	2.550P	2.549	30.660P	2449	2449	1454.9C	35	2	3456
1548	15.0	15.10	2.550P	2.549	30.670P	2449	2449	1455.0C	52	4	3449
1548	20.0	20.20	2.540P	2.539	30.670P	2449	2449	1455.1C	70	7	3448
1548	25.0	25.20	2.420P	2.419	30.740P	2456	2456	1454.7C	87	11	3386
1548	30.0	30.20	2.000P	1.999	31.450P	2516	2516	1453.9C	103	16	2819
1548	40.0	40.30	0.810P	0.808	32.160P	2580	2580	1449.7C	128	24	2206
1548	50.0	50.40	0.660P	0.658	32.350P	2596	2596	1449.5C	149	34	2053
1548	75.0	75.60	1.320P	1.317	32.850P	2632	2632	1453.5C	196	64	1711
1548	100.0	100.80	1.880P	1.875	33.130P	2651	2651	1456.8C	237	101	1537
1548	125.0	126.00	2.580P	2.573	33.450P	2671	2671	1460.7C	273	143	1350
1548	150.0	151.20	3.400P	3.390	33.800P	2691	2691	1465.2C	305	187	1159
1548	175.0	176.40	4.200P	4.187	34.110P	2708	2708	1469.4C	332	233	1007
1548	200.0	201.70	4.470P	4.455	34.350P	2724	2724	1471.2C	356	278	858
1548	250.0	252.10	4.980P	4.960	34.460P	2727	2727	1474.3C	398	377	838

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.550	2.550	30.650	2448	2448	1454.7	0	0	3464
	9.9	10.0	2.550W	2.549	30.660W	2449	2449	1454.9A	35	2	3456
	19.8	20.0	2.540W	2.539	30.670W	2449	2449	1455.1A	69	7	3449
	29.8	30.0	2.020A	2.019	31.424B	2514	2514	1453.9A	102	16	2840
	49.6	50.0	0.658C	0.656	32.342A	2595	2595	1449.5A	148	34	2059
	74.4	75.0	1.305A	1.302	32.840A	2631	2631	1453.4A	195	63	1717
	99.2	100.0	1.860A	1.855	33.121A	2650	2650	1456.7A	236	100	1543
	124.0	125.0	2.550A	2.543	33.437A	2670	2670	1460.5A	272	141	1358
	148.8	150.0	3.361A	3.352	33.784A	2690	2690	1465.0A	304	185	1168
	173.6	175.0	4.167B	4.154	34.094A	2707	2707	1469.2A	331	230	1015
	198.3	200.0	4.452A	4.437	34.337A	2723	2723	1471.1A	354	275	866
	223.1	225.0	4.706W	4.688	34.401W	2725	2725	1472.6W	375	324	849
	247.9	250.0	4.959W	4.939	34.455W	2727	2727	1474.2W	396	373	839

CRUISE NUMBER 71038

STATION NUMBER 030

LAT	N49 40.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	WW	02	COUN	18
LONG	W 64 25.00	MONTH	11	SWEL-P/H	02	WIND-SPD	05	CLO-A	5	INST	10
DEPTH	146.0	DAY	24	SWEL-D	310	AIR-TEM	-3.3			RESTR	
MARSD SQ	151	H/M	1647	BARO	1003.5	WET-BLB				UNAS	036

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1647	0.0	0.00	2.910P	2.910	31.100P	2481	2481	1456.90	0	0	3149
1647	5.0	5.00	2.870P	2.870	31.100P	2481	2481	1456.80	16	0	3146
1647	10.0	10.10	2.540P	2.539	31.080P	2482	2482	1455.40	32	2	3137
1647	15.0	15.10	2.590P	2.589	31.090P	2483	2483	1455.80	47	4	3133
1647	20.0	20.20	2.600P	2.599	31.100P	2483	2483	1455.90	63	7	3126
1647	25.0	25.20	2.600P	2.599	31.100P	2483	2483	1456.00	79	10	3126
1647	30.0	30.20	1.140P	1.139	31.860P	2554	2554	1450.60	93	14	2453
1647	40.0	40.30	0.380P	0.379	32.180P	2584	2584	1447.80	116	22	2169
1647	50.0	50.40	0.160P	0.158	32.290P	2594	2594	1447.10	138	32	2074
1647	75.0	75.60	1.250P	1.247	32.890P	2636	2636	1453.30	185	62	1676
1647	100.0	100.80	1.750P	1.745	33.120P	2651	2651	1456.20	225	98	1535
1647	125.0	126.00	2.520P	2.513	33.370P	2665	2665	1460.40	262	141	1405

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.910	2.910	31.100	2481	2481	1456.9	0	0	3149
	9.9	10.0	2.543A	2.542	31.080W	2482	2482	1455.4A	32	2	3137
	19.8	20.0	2.600W	2.599	31.100W	2483	2483	1455.9A	62	7	3126
	29.8	30.0	1.198W	1.197	31.830W	2551	2551	1450.8A	92	14	2480
	49.6	50.0	0.160A	0.158	32.285A	2594	2594	1447.1A	137	32	2078
	74.4	75.0	1.231A	1.228	32.880A	2635	2635	1453.2A	184	61	1683
	99.2	100.0	1.730A	1.725	33.112A	2651	2651	1456.1A	224	97	1539
	124.0	125.0	2.489W	2.483	33.360W	2664	2664	1460.2W	261	139	1410



## CRUISE NUMBER 71038 STATION NUMBER 031

LAT	N49	0.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	270	SW	02	COUN	18
LONG	W 64	15.00	MONTH	11	SHEL-P/H	02	WIND-SPD	04	CLD-A	.7	INST	10
DEPTH		192.0	DAY	24	SHEL-D	310	AIR-TEMP	-3.3			RESTR	
MARSD	SQ	151	H/M	2024	BARO	1003.5	WET-BLB				UNAS	037

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2024	0.0	0.00	1.500P	1.500	30.490P	2442	2442	1449.90	0	0	3518
2024	5.0	5.00	1.500P	1.500	30.500P	2443	2443	1450.00	18	0	3510
2024	10.0	10.10	1.500P	1.500	30.510P	2444	2444	1450.10	35	2	3503
2024	15.0	15.10	1.520P	1.519	30.590P	2458	2458	1450.50	53	4	3367
2024	20.0	20.20	1.510P	1.509	30.900P	2475	2475	1450.40	69	7	3206
2024	25.0	25.20	1.490P	1.489	31.070P	2481	2481	1450.90	85	11	3151
2024	30.0	30.20	1.480P	1.479	30.980P	2481	2481	1450.90	101	15	3143
2024	40.0	40.30	1.570P	1.568	31.150P	2494	2494	1451.70	132	26	3019
2024	50.0	50.40	1.600P	1.598	31.290P	2505	2505	1452.20	162	40	2914
2024	75.0	75.60	1.180P	1.177	32.410P	2596	2596	1452.30	225	80	2037
2024	100.0	100.80	1.340P	1.335	32.840P	2631	2631	1454.00	271	122	1720
2024	125.0	126.00	1.880P	1.874	33.080P	2647	2647	1457.20	313	169	1575
2024	150.0	151.20	2.330P	2.322	33.300P	2661	2661	1459.90	351	223	1444
2024	180.0	181.50	2.800P	2.789	33.530P	2675	2675	1462.70	392	294	1310

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.500	1.500	30.490	2442	2442	1449.9	0	0	3518
	9.9	10.0	1.500W	1.500	30.510A	2444	2444	1450.1A	35	2	3503
	19.8	20.0	1.511A	1.510	30.894A	2475	2475	1450.8A	68	7	3211
	29.8	30.0	1.480A	1.479	30.979A	2481	2481	1450.9W	100	15	3144
	49.6	50.0	1.601A	1.599	31.281A	2504	2504	1452.2A	161	39	2920
	74.4	75.0	1.183A	1.180	32.391A	2596	2596	1452.3A	224	79	2051
	99.2	100.0	1.329A	1.324	32.829A	2630	2630	1453.9A	270	121	1727
	124.0	125.0	1.860A	1.854	33.071A	2646	2646	1457.1A	311	167	1580
	148.8	150.0	2.310A	2.302	33.290A	2660	2660	1459.8A	349	220	1450
	173.6	175.0	2.699W	2.689	33.481W	2672	2672	1462.1W	383	279	1339

## CRUISE NUMBER 71038 STATION NUMBER 032

LAT N46 53.00 YEAR 1971 H/WAVE-P/H/00-02 WIND-DIR 270 WWS 02 COUN 018 P  
 LONG W66 11.00 MONTH 11 SWEL-P/H/02 WIND-SPD 105 CLO-A 7 INST 10  
 DEPTH 40.0 DAY 24 SWEL-D 270 AIR-TEM -3.9 RESTR  
 MARSQ SQ 151 H/M 2105 BARO 1003.5 WET-800 UNAS 038

## OBSERVED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2105	0.0	0.00	1.330P	1.330	29.720P	2381	2381	1448.10	0	0	4096
2105	5.0	5.00	1.340P	1.340	29.710P	2381	2381	1448.20	20	1	4104
2105	10.0	10.10	1.360P	1.360	29.740P	2383	2383	1448.40	41	2	4082
2105	15.0	15.10	1.390P	1.389	29.770P	2385	2385	1448.60	62	5	4060
2105	20.0	20.20	1.500P	1.499	30.470P	2440	2440	1450.20	81	8	3533
2105	25.0	25.20	1.490P	1.489	30.680P	2457	2457	1450.50	98	12	3372
2105	30.0	30.30	1.500P	1.499	30.690P	2458	2458	1450.60	115	17	3365
2105	40.0	40.30	1.560P	1.558	30.890P	2474	2474	1451.30	148	29	3216
2105	45.0	45.40	1.560P	1.558	30.920P	2476	2476	1451.50	165	36	3193

## INTERPOLATED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.330	1.330	29.720	2381	2381	1448.1	0	0	4096
	9.9	10.0	1.360A	1.360	29.739A	2383	2383	1448.4A	41	2	4082
	19.8	20.0	1.498A	1.497	30.452A	2439	2439	1450.2A	80	8	3547
	29.8	30.0	1.500W	1.499	30.689A	2458	2458	1450.6A	114	17	3366

## CRUISE NUMBER 71038 STATION NUMBER 031

LAT	N49	0.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	270	WW	02	COUN	18
LONG	W 64	15.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	7	INST	10
DEPTH		192.0	DAY	24	SWEL-D	310	AIR-TEM	-3.3			RESTR	
MARSD SQ		151	H/M	2024	BARO	1003.5	WET-BLE				UNAS	037

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2024	0.0	0.0C	1.500P	1.500	30.490P	2442	2442	1449.9C	0	0	3518
2024	5.0	5.0C	1.500P	1.500	30.500P	2443	2443	1450.0C	18	0	3510
2024	10.0	10.1C	1.500P	1.500	30.510P	2444	2444	1450.1C	35	2	3503
2024	15.0	15.1C	1.520P	1.519	30.690P	2458	2458	1450.5C	53	4	3367
2024	20.0	20.2C	1.510P	1.509	30.900P	2475	2475	1450.8C	69	7	3206
2024	25.0	25.2C	1.490P	1.489	30.970P	2481	2481	1450.9C	85	11	3151
2024	30.0	30.2C	1.480P	1.479	30.980P	2481	2481	1450.9C	101	15	3143
2024	40.0	40.3C	1.570P	1.568	31.150P	2494	2494	1451.7C	132	26	3019
2024	50.0	50.4C	1.600P	1.598	31.290P	2505	2505	1452.2C	162	40	2914
2024	75.0	75.6C	1.180P	1.177	32.410P	2598	2598	1452.3C	225	80	2037
2024	100.0	100.8C	1.340P	1.335	32.840P	2631	2631	1454.0C	271	122	1720
2024	125.0	126.0C	1.880P	1.874	33.080P	2647	2647	1457.2C	313	169	1575
2024	150.0	151.2C	2.330P	2.322	33.300P	2661	2661	1459.9C	351	223	1444
2024	180.0	181.5C	2.800P	2.789	33.530P	2675	2675	1462.7C	392	294	1310

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.500	1.500	30.490	2442	2442	1449.9	0	0	3518
	9.9	10.0	1.500W	1.500	30.510A	2444	2444	1450.1A	35	2	3503
	19.8	20.0	1.511A	1.510	30.894A	2475	2475	1450.8A	68	7	3211
	29.8	30.0	1.480A	1.479	30.979A	2481	2481	1450.9W	100	15	3144
	49.6	50.0	1.601A	1.599	31.281A	2504	2504	1452.2A	161	39	2920
	74.4	75.0	1.183A	1.180	32.391A	2596	2596	1452.3A	224	79	2051
	99.2	100.0	1.329A	1.324	32.829A	2630	2630	1453.9A	270	121	1727
	124.0	125.0	1.860A	1.854	33.071A	2646	2646	1457.1A	311	167	1580
	148.8	150.0	2.310A	2.302	33.290A	2660	2660	1459.8A	349	220	1450
	173.6	175.0	2.699W	2.689	33.481W	2672	2672	1462.1W	383	279	1339

## CRUISE NUMBER 71038 STATION NUMBER 032

LAT N48 53.00	YEAR 1971	WAVE-P/H 02	WIND-DIR 270	WH 02	COUN 18
LONG W 64 11.00	MONTH 11	SWEL-P/H 02	WIND-SPD 05	CLO-A 7	INST 10
DEPTH 45.0	DAY 24	SWEL-D 270	AIR-TEM -3.9		RESTR
MARSD SQ 151	H/M 2105	BARO 1003.5	WET-BLE		UNAS 038

## OBSERVED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2105	0.0	0.0C	1.330P	1.330	29.720P	2381	2381	1448.1C	0	0	4096
2105	5.0	5.0C	1.340P	1.340	29.710P	2381	2381	1448.2C	20	1	4104
2105	10.0	10.1C	1.360P	1.360	29.740P	2383	2383	1448.4C	41	2	4082
2105	15.0	15.1C	1.390P	1.389	29.770P	2385	2385	1448.6C	62	5	4060
2105	20.0	20.2C	1.500P	1.499	30.470P	2440	2440	1450.2C	81	8	3533
2105	25.0	25.2C	1.490P	1.489	30.680P	2457	2457	1450.5C	98	12	3372
2105	30.0	30.2C	1.500P	1.499	30.690P	2458	2458	1450.6C	115	17	3365
2105	40.0	40.3C	1.560P	1.558	30.890P	2474	2474	1451.3C	148	29	3216
2105	45.0	45.4C	1.560P	1.558	30.920P	2476	2476	1451.5C	165	36	3193

## INTERPOLATED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.330	1.330	29.720	2381	2381	1448.1	0	0	4096
	9.9	10.0	1.360A	1.360	29.739A	2383	2383	1448.4A	41	2	4082
	19.8	20.0	1.498A	1.497	30.452A	2439	2439	1450.2A	80	8	3547
	29.8	30.0	1.500W	1.499	30.689A	2458	2458	1450.6A	114	17	3366



CRUISE NUMBER 71038

STATION NUMBER 033

LAT	N48 56.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	270	WW	02	COUN	18
LONG	W 64 7.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLO-A	7	INST	10
DEPTH	246.0	DAY	24	SWEL-O	270	AIR-TEM	-3.3			RESTR	
MARSD	SQ 151	H/M	2136	BARO	1003.6	WET-BLB				UNAS	039

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2136	0.0	0.0C	1.400P	1.400	31.130P	2494	2494	1450.3C	0	0	3025
2136	5.0	5.0C	1.400P	1.400	31.110P	2492	2492	1450.3C	15	0	3040
2136	10.0	10.1C	1.400P	1.400	31.100P	2491	2491	1450.4C	31	2	3047
2136	15.0	15.1C	1.410P	1.409	31.110P	2492	2492	1450.6C	46	4	3040
2136	20.0	20.2C	1.400P	1.399	31.120P	2493	2493	1450.6C	61	6	3032
2136	25.0	25.2C	1.410P	1.409	31.120P	2493	2493	1450.7C	77	10	3032
2136	30.0	30.2C	1.420P	1.419	31.120P	2493	2493	1450.9C	92	14	3033
2136	40.0	40.3C	1.550P	1.548	31.200P	2499	2499	1451.7C	122	25	2980
2136	50.0	50.4C	1.590P	1.588	31.270P	2504	2504	1452.2C	152	39	2929
2136	75.0	75.6C	1.300P	1.297	32.460P	2601	2601	1452.9C	214	78	2006
2136	100.0	100.8C	1.260P	1.256	32.800P	2628	2629	1453.6C	261	120	1745
2136	125.0	126.0C	1.950P	1.944	33.120P	2649	2649	1457.5C	302	168	1550
2136	150.0	151.2C	2.650P	2.641	33.440P	2669	2669	1461.4C	339	220	1364
2136	175.0	176.4C	3.190P	3.179	33.740P	2689	2689	1464.6C	371	273	1187
2136	200.0	201.6C	3.480P	3.467	33.890P	2698	2698	1466.4C	400	328	1103
2136	230.0	231.9C	3.680P	3.664	33.990P	2704	2704	1467.9C	432	400	1049

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.400	1.400	31.130	2494	2494	1450.3	0	0	3025
	9.9	10.0	1.400W	1.400	31.100W	2491	2491	1450.4W	31	2	3047
	19.8	20.0	1.400W	1.399	31.120W	2493	2493	1450.6W	60	6	3032
	29.8	30.0	1.420A	1.419	31.120W	2493	2493	1450.9A	91	14	3033
	49.6	50.0	1.590A	1.588	31.267A	2504	2504	1452.2A	151	38	2932
	74.4	75.0	1.304A	1.301	32.442A	2600	2599	1452.9A	213	77	2020
	99.2	100.0	1.251A	1.247	32.790A	2627	2628	1453.6A	260	119	1752
	124.0	125.0	1.922A	1.917	33.107A	2648	2648	1457.3A	300	166	1558
	148.8	150.0	2.617A	2.608	33.425A	2668	2668	1461.2A	337	217	1373
	173.6	175.0	3.166A	3.155	33.727A	2688	2688	1464.5A	369	270	1195
	198.4	200.0	3.466A	3.453	33.883A	2698	2698	1466.3A	398	324	1107
	223.2	225.0	3.634W	3.619	33.967W	2703	2703	1467.6W	425	384	1061

## CRUISE NUMBER 71038 STATION NUMBER 034

LAT N49 2.00	YEAR 1971	WAVE-P/H 0.03	WIND-DIR 270	WW 02	COUN 18
LONG W 64 1.00	MONTH 11	SWEL-P/H 0.03	WIND-SPD 08	CLD-A 8	INST 10
DEPTH 292.0	DAY 24	SWEL-D 270	AIR-TEM -3.3		RESTR
MARSD SQ	H/M 2230	BARO 1003.6	WET-BLB		UNAS 040

## OBSERVED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2230	0.0	0.00	2.190P	2.190	30.670P	2452	2452	1453.20	0	0	3424
2230	5.0	5.00	2.180P	2.180	30.660P	2451	2451	1453.20	17	0	3431
2230	10.0	10.10	2.190P	2.190	30.650P	2450	2450	1453.30	35	2	3439
2230	15.0	15.10	2.180P	2.179	30.680P	2453	2453	1453.40	52	4	3446
2230	20.0	20.20	1.930P	1.929	30.870P	2470	2470	1452.60	69	7	3255
2230	25.0	25.20	1.600P	1.599	31.040P	2485	2485	1451.50	85	11	3105
2230	30.0	30.20	1.640P	1.639	31.130P	2492	2492	1451.90	100	15	3039
2230	40.0	40.30	1.700P	1.698	31.640P	2533	2533	1453.00	129	25	2655
2230	50.0	50.40	0.740P	0.738	32.410P	2600	2600	1449.90	153	36	2012
2230	75.0	75.60	1.280P	1.277	32.790P	2628	2628	1453.30	200	67	1754
2230	100.0	100.80	1.690P	1.685	33.060P	2646	2646	1455.90	242	104	1577
2230	125.0	126.00	2.390P	2.383	33.340P	2664	2664	1459.80	280	148	1417
2230	150.0	151.20	3.000P	2.991	33.650P	2683	2683	1463.20	313	195	1236
2230	175.0	176.40	3.510P	3.498	33.880P	2697	2697	1466.10	343	244	1111
2230	200.0	201.70	3.890P	3.876	34.080P	2709	2709	1468.40	369	295	1000
2230	250.0	252.10	4.170P	4.152	34.280P	2722	2722	1470.70	417	404	884
2230	280.0	282.40	4.440P	4.419	34.440P	2732	2732	1472.60	442	473	796

## INTERPOLATED

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.190	2.190	30.670	2452	2452	1453.2	0	0	3424
	9.9	10.0	2.190W	2.190	30.650A	2450	2450	1453.3	35	2	3439
	19.8	20.0	1.942A	1.941	30.863A	2469	2469	1452.6A	68	7	3261
	29.8	30.0	1.638A	1.637	31.125A	2492	2492	1451.9A	99	15	3043
	49.6	50.0	0.771C	0.769	32.384B	2598	2598	1450.0A	152	36	2034
	79.5	75.0	1.269A	1.266	32.782A	2627	2627	1453.2A	199	66	1759
	99.2	100.0	1.673A	1.668	33.051A	2645	2645	1455.8A	241	103	1582
	124.0	125.0	2.364A	2.357	33.328A	2663	2663	1459.7A	279	146	1424
	148.8	150.0	2.973A	2.964	33.637A	2682	2682	1463.0A	312	193	1243
	173.6	175.0	3.485A	3.473	33.868A	2696	2696	1466.0A	341	241	1118
	198.3	200.0	3.869A	3.855	34.068A	2708	2708	1468.3A	367	292	1007
	223.1	225.0	3.997D	3.981	34.163B	2714	2714	1469.4A	392	344	951
	247.9	250.0	4.155B	4.137	34.270A	2721	2721	1470.6A	415	399	889

## CRUISE NUMBER 71038

## STATION NUMBER 033

LAT	N48 56.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	270	WW	02	COUN	18
LONG	W 64 7.00	MONTH	11	SWEL-P/H	02	WIND-SPD	08	CLD-A	.7	INST	10
DEPTH	246.0	DAY	24	SWEL-O	270	AIR-TEM	-3.3			RESTR	
MARSD	SQ 151	H/M	2136	BARO	1003.6	WET-BLB				UNAS	039

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2136	0.0	0.00	1.400P	1.400	31.130P	2494	2494	1450.3C	0	0	3025
2136	5.0	5.00	1.400P	1.400	31.110P	2492	2492	1450.3C	15	0	3040
2136	10.0	10.10	1.400P	1.400	31.100P	2491	2491	1450.4C	31	2	3047
2136	15.0	15.10	1.410P	1.409	31.110P	2492	2492	1450.6C	46	4	3040
2136	20.0	20.20	1.400P	1.399	31.120P	2493	2493	1450.6C	61	6	3032
2136	25.0	25.20	1.410P	1.409	31.120P	2493	2493	1450.7C	77	10	3032
2136	30.0	30.20	1.420P	1.419	31.120P	2493	2493	1450.9C	92	14	3033
2136	40.0	40.30	1.550P	1.548	31.200P	2499	2499	1451.7C	122	25	2980
2136	50.0	50.40	1.590P	1.588	31.270P	2504	2504	1452.2C	152	39	2929
2136	75.0	75.60	1.300P	1.297	32.460P	2601	2601	1452.9C	214	78	2006
2136	100.0	100.80	1.260P	1.256	32.800P	2628	2629	1453.6C	261	120	1745
2136	125.0	126.00	1.950P	1.944	33.120P	2649	2649	1457.5C	302	168	1550
2136	150.0	151.20	2.650P	2.641	33.440P	2669	2669	1461.4C	339	220	1364
2136	175.0	176.40	3.190P	3.179	33.740P	2689	2689	1464.6C	371	273	1187
2136	200.0	201.60	3.480P	3.467	33.890P	2698	2698	1466.4C	400	328	1103
2136	230.0	231.90	3.680P	3.664	33.990P	2704	2704	1467.9C	432	400	1049

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	1.400	1.400	31.130	2494	2494	1450.3	0	0	3025
	9.9	10.0	1.400W	1.400	31.100W	2491	2491	1450.4W	31	2	3047
	19.8	20.0	1.400W	1.399	31.120W	2493	2493	1450.6W	60	6	3032
	29.8	30.0	1.420A	1.419	31.120W	2493	2493	1450.9A	91	14	3033
	49.6	50.0	1.590A	1.588	31.267A	2504	2504	1452.2A	151	38	2932
	74.4	75.0	1.304A	1.301	32.442A	2600	2599	1452.9A	213	77	2020
	99.2	100.0	1.251A	1.247	32.790A	2627	2628	1453.6A	260	119	1752
	124.0	125.0	1.922A	1.917	33.107A	2648	2648	1457.3A	300	166	1558
	148.8	150.0	2.617A	2.608	33.425A	2668	2668	1461.2A	337	217	1373
	173.6	175.0	3.166A	3.155	33.727A	2688	2688	1464.5A	369	270	1195
	198.4	200.0	3.466A	3.453	33.883A	2698	2698	1466.3A	398	324	1107
	223.2	225.0	3.634W	3.619	33.967W	2703	2703	1467.6W	425	384	1061



## CRUISE NUMBER 71038 STATION NUMBER 034

LAT	N 49	2.70	YEAR	1971	WAVE-P/H	03	WIND-DIR	270	WW	02	COUN	18
LONG	W 64	1.30	MONTH	11	SWEL-P/H	03	WIND-SPD	08	CLD-A	8	INST	10
DEPTH		292.0	DAY	24	SWEL-D	270	AIR-TEM	-3.3			RESTR	
MARSD SQ			H/M	2230	BARO	1003.6	WET-BLB				UNAS	040

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2230	0.0	0.00	2.190P	2.190	30.670P	2452	2452	1453.20	0	0	3424
2230	5.0	5.00	2.180P	2.180	30.660P	2451	2451	1453.20	17	0	3431
2230	10.0	10.10	2.190P	2.190	30.650P	2450	2450	1453.30	35	2	3439
2230	15.0	15.10	2.180P	2.179	30.680P	2453	2453	1453.40	52	4	3416
2230	20.0	20.20	1.930P	1.929	30.870P	2470	2470	1452.60	69	7	3255
2230	25.0	25.20	1.600P	1.599	31.040P	2485	2485	1451.50	85	11	3105
2230	30.0	30.20	1.640P	1.639	31.130P	2492	2492	1451.90	100	15	3039
2230	40.0	40.30	1.700P	1.698	31.640P	2533	2533	1453.00	129	25	2655
2230	50.0	50.40	0.740P	0.738	32.410P	2600	2600	1449.90	153	36	2012
2230	75.0	75.60	1.280P	1.277	32.790P	2628	2628	1453.30	200	67	1754
2230	100.0	100.80	1.690P	1.685	33.060P	2646	2646	1455.90	242	104	1577
2230	125.0	126.00	2.390P	2.383	33.340P	2664	2664	1459.80	280	148	1417
2230	150.0	151.20	3.000P	2.991	33.650P	2683	2683	1463.20	313	195	1236
2230	175.0	176.40	3.510P	3.498	33.880P	2697	2697	1466.10	343	244	1111
2230	200.0	201.70	3.890P	3.876	34.080P	2709	2709	1468.40	369	295	1000
2230	250.0	252.10	4.170P	4.152	34.280P	2722	2722	1470.70	417	404	884
2230	280.0	282.40	4.440P	4.419	34.440P	2732	2732	1472.60	442	473	796

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.190	2.190	30.670	2452	2452	1453.2	0	0	3424
	9.9	10.0	2.190W	2.190	30.650A	2450	2450	1451.3W	35	2	3439
	19.8	20.0	1.942A	1.941	30.863A	2469	2469	1452.6A	56	7	3261
	29.8	30.1	1.638A	1.637	31.125A	2492	2492	1451.9A	99	15	3043
	49.6	50.0	0.771C	0.769	32.384B	2598	2598	1450.0A	152	36	2034
	74.4	75.0	1.280A	1.266	32.782A	2627	2627	1453.2A	199	66	1759
	99.2	100.0	1.673A	1.668	33.051A	2645	2645	1455.8A	241	103	1582
	124.0	125.0	2.384A	2.357	33.328A	2663	2663	1459.7A	279	146	1424
	148.8	150.0	2.973A	2.964	33.637A	2682	2682	1463.0A	312	193	1243
	173.6	175.0	3.489A	3.473	33.868A	2696	2696	1466.0A	341	241	1118
	198.3	200.0	3.869A	3.855	34.068A	2708	2708	1468.3A	367	292	1007
	223.1	225.0	3.997D	3.981	34.163B	2714	2714	1469.4B	392	344	951
	247.9	250.0	4.155B	4.137	34.270A	2721	2721	1470.6B	415	399	889



CRUISE NUMBER 71038

STATION NUMBER 035

LAT	N49 10.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	310	WW	02	COUN	18
LONG	W 63 52.00	MONTH	11	SWEL-P/H	03	WIND-SPD	08	CLO-A	7	INST	10
DEPTH	379.0	DAY	25	SWEL-D	270	AIR-TEM	-3.3			RESTR	
MARSD	SQ 151	H/M	0025	BARO	1003.6	WET-BLE				UNAS	041

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0025	0.0	0.00	2.670P	2.670	30.930P	2469	2469	1455.6C	0	0	3260
0025	5.0	5.00	2.670P	2.670	30.940P	2470	2470	1455.7C	16	0	3253
0025	10.0	10.10	2.670P	2.669	30.960P	2472	2472	1455.9C	33	2	3237
0025	15.0	15.10	2.670P	2.669	30.950P	2471	2471	1455.9C	49	4	3245
0025	20.0	20.20	2.680P	2.679	30.950P	2471	2471	1456.0C	66	7	3246
0025	25.0	25.20	2.680P	2.679	30.960P	2471	2472	1456.1C	82	10	3238
0025	30.0	30.20	2.680P	2.678	30.960P	2471	2472	1456.2C	98	15	3238
0025	40.0	40.30	2.070P	2.068	31.620P	2529	2529	1454.6C	128	26	2694
0025	50.0	50.40	1.000P	0.998	32.260P	2587	2587	1450.9C	153	37	2141
0025	75.0	75.60	0.860P	0.857	32.680P	2621	2621	1451.2C	202	68	1813
0025	100.0	100.80	1.750P	1.745	33.070P	2647	2647	1456.2C	245	107	1573
0025	125.0	126.00	2.580P	2.573	33.410P	2668	2668	1460.7C	282	149	1380
0025	150.0	151.20	3.290P	3.280	33.730P	2687	2687	1464.6C	315	195	1202
0025	175.0	176.40	3.810P	3.798	33.980P	2702	2702	1467.6C	343	243	1065
0025	200.0	201.70	4.450P	4.435	34.220P	2714	2714	1471.0C	369	292	953
0025	250.0	252.10	4.820P	4.800	34.500P	2732	2732	1473.7C	412	392	790
0025	300.0	302.60	4.940P	4.916	34.590P	2738	2738	1475.2C	451	501	742
0025	350.0	353.00	4.800P	4.772	34.700P	2748	2749	1475.6C	486	618	650

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.670	2.670	30.930	2469	2469	1455.6	0	0	3260
	9.9	10.0	2.670W	2.669	30.960A	2472	2472	1455.9W	33	2	3237
	19.8	20.0	2.680W	2.679	30.950W	2471	2471	1456.0W	65	7	3246
	29.8	30.0	2.680W	2.678	30.960W	2471	2472	1456.2A	97	15	3238
	49.6	50.0	1.035C	1.033	32.238A	2585	2585	1451.0A	152	37	2162
	74.4	75.0	0.851B	0.848	32.670A	2620	2620	1451.1A	201	67	1820
	99.2	100.0	1.723A	1.718	33.058A	2646	2646	1456.0A	244	106	1580
	124.0	125.0	2.549A	2.542	33.397A	2667	2667	1460.5A	281	147	1387
	148.8	150.0	3.260A	3.250	33.716A	2686	2686	1464.4A	314	193	1210
	173.6	175.0	3.778A	3.766	33.966A	2701	2701	1467.4A	342	240	1072
	198.3	200.0	4.416A	4.401	34.205A	2713	2713	1470.8A	367	289	960
	223.1	225.0	4.702E	4.684	34.379B	2724	2724	1472.6A	390	338	865
	247.9	250.0	4.810A	4.790	34.492A	2731	2731	1473.6A	410	388	795
	297.4	300.0	4.940A	4.916	34.585A	2738	2738	1475.2A	449	495	746

## CRUISE NUMBER 71038 STATION NUMBER 036

LAT	N48 57.00	YEAR	1971	WAVE-P/H	02	WIND-DIR	310	HW	02	COUN	18
LONG	W 63 4.00	MONTH	11	SWEL-P/H	02	WIND-SPD	04	CLD-A	5	INST	10
DEPTH	393.0	DAY	25	SWEL-D	270	AIR-TEM	-2.2			RESTR	
MARSD SQ	151	H/M	0335	BARO	1003.7	WET-BLE				UNAS	042

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0335	0.0	0.00	2.780P	2.780	30.700P	2450	2450	1455.8C	0	0	3443
0335	5.0	5.00	2.790P	2.790	30.700P	2450	2450	1455.9C	17	0	3443
0335	10.0	10.10	2.790P	2.789	30.700P	2450	2450	1456.0C	35	2	3443
0335	15.0	15.10	2.790P	2.789	30.700P	2450	2450	1456.1C	52	4	3444
0335	20.0	20.20	2.790P	2.789	30.690P	2449	2449	1456.2C	70	7	3451
0335	25.0	25.20	2.790P	2.789	30.690P	2449	2449	1456.3C	87	11	3451
0335	30.0	30.20	2.790P	2.788	30.700P	2450	2450	1456.4C	104	16	3444
0335	40.0	40.30	1.900P	1.898	31.220P	2498	2498	1453.3C	137	28	2987
0335	50.0	50.40	1.610P	1.608	31.780P	2545	2545	1452.9C	165	41	2542
0335	75.0	75.60	1.070P	1.067	32.440P	2601	2601	1451.8C	221	76	2007
0335	100.0	100.80	1.330P	1.325	32.920P	2638	2638	1454.1C	267	117	1659
0335	125.0	126.00	2.110P	2.103	33.260P	2659	2659	1458.4C	306	163	1456
0335	150.0	151.20	2.990P	2.981	33.600P	2679	2679	1463.1C	341	211	1273
0335	175.0	176.40	3.620P	3.608	33.930P	2700	2700	1466.7C	370	260	1084
0335	200.0	201.60	4.110P	4.096	34.170P	2714	2714	1469.5C	396	310	955
0335	250.0	252.10	4.710P	4.690	34.500P	2733	2734	1473.3C	439	410	778
0335	300.0	302.90	4.890P	4.866	34.710P	2748	2748	1475.1C	475	510	647
0335	350.0	354.40	4.780P	4.752	34.790P	2756	2756	1475.6C	506	614	580

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.00	2.780	2.780	30.700	2450	2450	1455.8	0	0	3443
	9.9	10.0	2.790W	2.789	30.700W	2450	2450	1456.0A	35	2	3443
	19.8	20.0	2.790W	2.789	30.690W	2449	2449	1456.2A	69	7	3451
	29.8	30.0	2.780W	2.788	30.700W	2450	2450	1456.4A	103	16	3444
	49.6	50.0	1.620A	1.618	31.761A	2543	2543	1452.9A	164	40	2558
	79.5	75.0	1.074A	1.071	32.426A	2600	2600	1451.8A	220	75	2017
	99.2	100.0	1.311A	1.308	32.907A	2637	2637	1454.0A	266	116	1668
	124.0	125.0	2.077A	2.070	33.247A	2658	2658	1458.2A	305	161	1464
	148.8	150.0	2.953A	2.944	33.584A	2678	2678	1462.9A	339	209	1282
	173.6	175.0	3.589A	3.577	33.914A	2699	2699	1466.5A	368	257	1094
	198.4	200.0	4.083A	4.069	34.157A	2713	2713	1469.3A	394	307	962
	223.2	225.0	4.447A	4.430	34.345A	2724	2724	1471.5A	417	356	860
	247.9	250.0	4.694A	4.674	34.489A	2732	2733	1473.2A	437	406	784
	297.5	300.0	4.889A	4.865	34.703A	2747	2747	1475.0A	473	555	652

CRUISE NUMBER 71038

STATION NUMBER 037

LAT	N49 45.00	YEAR	1971	WAVE-P/H	00	WIND-DIR		WW	02	COUN	18
LONG	W 61 50.00	MONTH	11	SWEL-P/H	00	WIND-SFD	00	CLO-A	4	INST	10
DEPTH	246.0	DAY	25	SWEL-D		AIR-TEM	-2.2			RESTR	
MARSD	SQ 151	H/M	1302	BARO	1003.7	WET-BLB				UNAS	022

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1302	0.0	0.0C	2.210P	2.210	31.400P	2510	2510	1454.3C	0	0	2871
1302	5.0	5.0C	2.210P	2.210	31.410P	2511	2511	1454.4C	14	0	2863
1302	10.0	10.1C	2.210P	2.209	31.420P	2512	2512	1454.5C	29	1	2856
1302	15.0	15.1C	2.210P	2.209	31.430P	2512	2512	1454.6C	43	3	2848
1302	20.0	20.2C	2.250P	2.249	31.440P	2513	2513	1454.8C	58	6	2843
1302	25.0	25.2C	2.250P	2.249	31.440P	2513	2513	1454.9C	72	9	2843
1302	30.0	30.2C	2.260P	2.258	31.450P	2514	2514	1455.0C	86	13	2836
1302	40.0	40.3C	2.200P	2.198	31.460P	2515	2515	1455.0C	115	24	2825
1302	50.0	50.4C	2.000P	1.998	31.710P	2536	2536	1454.6C	142	36	2621
1302	75.0	75.6C	0.800P	0.797	32.390P	2598	2598	1450.6C	201	73	2030
1302	100.0	100.8C	0.910P	0.906	32.760P	2627	2627	1452.0C	248	116	1754
1302	125.0	126.0C	1.670P	1.664	33.020P	2643	2643	1456.1C	290	165	1606
1302	150.0	151.2C	2.450P	2.442	33.420P	2669	2669	1460.5C	328	217	1363
1302	175.0	176.4C	3.460P	3.448	33.740P	2686	2686	1465.7C	360	271	1212
1302	200.0	201.7C	4.220P	4.205	34.140P	2710	2710	1469.9C	388	325	989
1302	240.0	242.0C	4.980P	4.961	34.540P	2733	2734	1474.3C	424	405	777

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.210	2.210	31.400	2510	2510	1454.3	0	0	2871
	9.9	10.0	2.210W	2.209	31.420A	2512	2512	1454.5A	29	1	2856
	19.8	20.0	2.248W	2.247	31.440W	2513	2513	1454.8A	57	6	2843
	29.8	30.0	2.260W	2.258	31.450W	2514	2514	1455.0W	85	13	2836
	49.6	50.0	2.011A	2.009	31.700A	2535	2535	1454.6W	141	35	2630
	74.4	75.0	0.814B	0.811	32.377A	2597	2597	1450.6A	200	72	2041
	99.2	100.0	0.896A	0.892	32.750A	2626	2626	1451.9A	247	115	1761
	124.0	125.0	1.639A	1.634	33.007A	2642	2642	1455.9A	288	163	1614
	148.8	150.0	2.408A	2.401	33.403A	2668	2668	1460.3A	326	214	1372
	173.6	175.0	3.410A	3.399	33.720A	2685	2685	1465.4A	358	268	1222
	198.3	200.0	4.176A	4.162	34.116A	2709	2709	1469.7A	386	321	1002
	223.1	225.0	4.659W	4.642	34.371W	2723	2724	1472.4W	409	371	866

## CRUISE NUMBER 71038 STATION NUMBER 038

LAT	N49 56.00	YEAR	1971	WAVE-P/H	00	WIND-DIR		WW	02	COUN	18
LONG	W 60 50.00	MONTH	11	SWEL-P/H	00	WIND-SPD	00	CLD-A	6	INST	10
DEPTH	137.0	DAY	25	SWEL-D		AIR-TEM	-3.3			RESTR	
MARSD	SQ 242	H/M	1650	BARO	1003.7	WET-BLB				UNAS	021

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1650	0.0	0.00	2.810P	2.810	31.490P	2513	2513	1457.00	0	0	2846
1650	5.0	5.00	2.810P	2.810	31.490P	2513	2513	1457.10	14	0	2846
1650	10.0	10.10	2.810P	2.809	31.480P	2512	2512	1457.20	29	1	2854
1650	15.0	15.10	2.820P	2.819	31.500P	2513	2513	1457.30	43	3	2840
1650	20.0	20.20	2.960P	2.959	31.510P	2513	2513	1458.00	57	6	2843
1650	25.0	25.20	3.110P	3.109	31.550P	2515	2515	1458.80	72	9	2825
1650	30.0	30.20	3.140P	3.138	31.590P	2518	2518	1459.10	86	13	2797
1650	40.0	40.30	3.180P	3.178	31.610P	2519	2519	1459.40	114	23	2786
1650	50.0	50.40	3.200P	3.197	31.630P	2521	2521	1459.70	142	36	2773
1650	75.0	75.60	1.350P	1.347	32.190P	2579	2579	1452.80	205	77	2214
1650	100.0	100.80	0.850P	0.846	32.530P	2609	2609	1451.40	267	123	1926
1650	120.0	121.00	0.890P	0.885	32.720P	2624	2624	1452.20	295	165	1783

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.810	2.810	31.490	2513	2513	1457.0	0	0	2846
	9.9	10.0	2.810W	2.809	31.480W	2512	2512	1457.2A	29	1	2854
	19.8	20.0	2.954A	2.953	31.509A	2513	2513	1458.0A	50	6	2843
	29.8	30.0	3.139A	3.137	31.588A	2518	2518	1459.1A	85	13	2798
	49.6	50.0	3.206B	3.203	31.629A	2521	2521	1459.7A	141	35	2775
	74.4	75.0	1.378A	1.375	32.179A	2578	2578	1452.9A	204	70	2224
	99.2	100.0	0.856A	0.852	32.521A	2608	2608	1451.4A	255	121	1933



## CRUISE NUMBER 71038 STATION NUMBER 039

LAT	N50	5.00	YEAR	1971	WAVE-P/H	00	WIND-DIR		WW	02	COUN	18
LONG	W 59	55.00	MONTH	11	SWEL-P/H	00	WIND-SPD	00	CLD-A	.7	INST	10
DEPTH		128.0	DAY	25	SWEL-O	000	AIR-TEM	-2.2			RESTR	
MARSD	SQ	186	H/M	2000	BARO	1003.7	WET-BLB				UNAS	020

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
2000	0.0	0.0C	2.390P	2.390	31.340P	2504	2504	1455.0C	0	0	2929
2000	5.0	5.0C	2.390P	2.390	31.360P	2506	2506	1455.1C	15	0	2914
2000	10.0	10.1C	2.500P	2.499	31.380P	2506	2506	1455.7C	29	2	2906
2000	15.0	15.1C	2.490P	2.489	31.400P	2508	2508	1455.7C	44	3	2891
2000	20.0	20.2C	2.450P	2.449	31.410P	2509	2509	1455.7C	59	6	2880
2000	25.0	25.2C	2.410P	2.409	31.400P	2509	2509	1455.6C	73	9	2885
2000	30.0	30.2C	2.430P	2.428	31.400P	2508	2508	1455.7C	87	13	2886
2000	40.0	40.3C	2.460P	2.458	31.440P	2511	2511	1456.1C	117	24	2858
2000	50.0	50.4C	2.420P	2.417	31.440P	2512	2512	1456.1C	145	37	2856
2000	75.0	75.6C	2.210P	2.206	31.600P	2526	2526	1455.8C	216	83	2719
2000	100.0	100.8C	1.240P	1.236	32.330P	2591	2591	1452.9C	277	137	2101
2000	120.0	121.0C	1.600P	1.594	32.790P	2625	2625	1455.4C	316	181	1775

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.390	2.390	31.340	2504	2504	1455.0	0	0	2929
	9.9	10.0	2.498W	2.497	31.380A	2506	2506	1455.7W	29	2	2906
	19.8	20.0	2.452A	2.451	31.410W	2509	2509	1455.7W	58	6	2880
	29.8	30.0	2.429A	2.427	31.400W	2508	2508	1455.7W	86	13	2886
	49.6	50.0	2.422A	2.420	31.440W	2512	2512	1456.1W	144	36	2856
	74.4	75.0	2.223A	2.219	31.596W	2525	2525	1455.8W	214	82	2727
	99.2	100.0	1.250C	1.246	32.309A	2589	2589	1452.9A	275	135	2117

## CRUISE NUMBER 71038 STATION NUMBER 040

LAT	N48 43.00	YEAR	1971	WAVE-P/H	03	WIND-DIR	140	WW	02	COUN	18
LONG	W 62 19.00	MONTH	11	SWEL-P/H	03	WIND-SFD	10	CLD-A	8	INST	10
DEPTH	384.0	DAY	26	SWEL-D	140	AIR-TEM	0.0			RESTR	
MARSD	SQ 151	H/M	0625	BARO	1002.8	WET-BLB				UNAS	043

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0625	0.0	0.00	2.690P	2.690	31.080P	2481	2481	1455.9C	0	0	3148
0625	5.0	5.00	2.690P	2.690	31.070P	2480	2480	1456.0C	16	0	3155
0625	10.0	10.10	2.680P	2.679	31.060P	2479	2479	1456.0C	32	2	3162
0625	15.0	15.10	2.680P	2.679	31.070P	2480	2480	1456.1C	48	4	3155
0625	20.0	20.20	2.680P	2.679	31.070P	2480	2480	1456.2C	64	7	3155
0625	25.0	25.20	2.680P	2.679	31.070P	2480	2480	1456.3C	80	10	3155
0625	30.0	30.20	2.680P	2.678	31.060P	2479	2479	1456.4C	95	15	3163
0625	40.0	40.30	2.770P	2.768	31.150P	2486	2486	1457.0C	127	26	3101
0625	50.0	50.40	2.610P	2.607	31.280P	2498	2498	1456.7C	158	40	2991
0625	75.0	75.60	0.250P	0.247	32.390P	2601	2601	1448.0C	221	80	2001
0625	100.0	100.80	0.740P	0.736	32.770P	2629	2629	1451.2C	267	122	1737
0625	125.0	126.00	1.600P	1.594	33.070P	2648	2648	1455.9C	309	170	1563
0625	150.0	151.20	3.150P	3.141	33.590P	2677	2677	1463.8C	345	220	1294
0625	175.0	176.40	3.900P	3.888	33.910P	2695	2695	1467.8C	375	271	1127
0625	200.0	201.60	4.770P	4.754	34.200P	2709	2709	1472.3C	402	322	1003
0625	250.0	252.10	5.070P	5.050	34.490P	2728	2729	1474.7C	448	428	826
0625	300.0	302.50	5.130P	5.105	34.580P	2735	2735	1475.9C	488	542	772

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.690	2.690	31.080	2481	2481	1455.9	0	0	3148
	9.9	10.0	2.680W	2.679	31.060W	2479	2479	1456.0W	32	2	3162
	19.8	20.0	2.680W	2.679	31.070W	2480	2480	1456.2A	63	7	3155
	29.8	30.0	2.680W	2.678	31.060W	2479	2479	1456.4A	94	15	3163
	49.6	50.0	2.623A	2.620	31.272A	2497	2497	1456.7A	157	39	2998
	74.4	75.0	0.274B	0.271	32.372A	2599	2599	1448.1A	220	79	2016
	99.2	100.0	0.719A	0.715	32.759A	2628	2628	1451.1A	266	121	1744
	124.0	125.0	1.554A	1.548	33.054A	2647	2647	1455.7A	307	168	1572
	148.8	150.0	3.054A	3.085	33.570A	2676	2676	1463.5A	343	218	1305
	173.6	175.0	3.855A	3.844	33.893A	2694	2694	1467.6A	373	268	1135
	198.4	200.0	4.726C	4.711	34.184A	2708	2708	1472.1A	400	319	1010
	223.2	225.0	4.983F	4.966	34.377C	2719	2720	1473.8B	424	370	907
	247.9	250.0	5.063A	5.043	34.482A	2727	2728	1474.6A	446	423	831
	297.5	300.0	5.127W	5.102	34.576W	2735	2735	1475.8W	486	536	775

## CRUISE NUMBER 71038 STATION NUMBER 041

LAT	N48	20.00	YEAR	1971	WAVE-P/H	05	WIND-DIR	140	HW	23	COUN	18
LONG	W 63	10.00	MONTH	11	SWEL-P/H	05	WIND-SPD	13	CLD-A	8	INST	10
DEPTH		50.0	DAY	26	SWEL-D	130	AIR-TEM	0.6			RESTR	
MARSD	SQ	151	H/M	1020	BARO	1001.9	WET-BLB				UNAS	044

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1020	0.0	0.00	2.940P	2.940	30.610P	2442	2442	1456.4C	0	0	3523
1020	5.0	5.00	2.940P	2.940	30.610P	2442	2442	1456.5C	18	0	3523
1020	10.0	10.10	2.940P	2.939	30.620P	2442	2442	1456.6C	36	2	3515
1020	15.0	15.10	2.940P	2.939	30.620P	2442	2442	1456.7C	53	4	3515
1020	20.0	20.20	2.940P	2.939	30.610P	2442	2442	1456.7C	71	7	3523
1020	25.0	25.20	2.930P	2.929	30.610P	2442	2442	1456.8C	89	11	3522
1020	30.0	30.20	2.410P	2.408	30.710P	2454	2454	1454.7C	106	16	3408
1020	40.0	40.30	2.390P	2.388	31.120P	2486	2486	1455.3C	139	28	3096
1020	50.0	50.40	1.810P	1.808	31.730P	2539	2539	1453.8C	168	41	2593

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	2.940	2.940	30.610	2442	2442	1456.4	0	0	3523
	9.9	10.0	2.940W	2.939	30.620W	2442	2442	1456.6A	36	2	3515
	19.8	20.0	2.940W	2.939	30.610W	2442	2442	1456.7W	70	7	3523
	29.8	30.0	2.427B	2.425	30.706W	2454	2454	1454.8A	105	16	3413
	49.6	50.0	1.833W	1.831	31.706W	2537	2537	1453.9W	167	40	2613

CRUISE NUMBER 71038 STATION NUMBER 042

LAT N47 50.30	YEAR 1971	WAVE-P/H 06	WIND-DIR 140	WW 21	COUN 18
LONG W 62 50.00	MONTH 11	SWEL-P/H 06	WIND-SPD 18	CLO-A 8	INST 10
DEPTH 65.0	DAY 26	SWEL-D 140	AIR-TEM 0.6		RESTR
MARSD SQ 151	H/M 1525	BARO 1000.8	WET-BL8		UNAS 045

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1525	0.0	0.00	3.310P	3.310	30.420P	2423	2423	1457.7C	0	0	3696
1525	5.0	5.00	3.310P	3.310	30.410P	2423	2423	1457.8C	18	0	3703
1525	10.0	10.10	3.310P	3.309	30.410P	2423	2423	1457.9C	37	2	3703
1525	15.0	15.10	3.310P	3.309	30.410P	2423	2423	1458.0C	56	4	3703
1525	20.0	20.20	3.300P	3.299	30.400P	2422	2422	1458.0C	75	8	3710
1525	25.0	25.20	3.300P	3.299	30.430P	2424	2424	1458.1C	93	12	3688
1525	30.0	30.20	3.230P	3.228	30.440P	2426	2426	1457.9C	112	17	3675
1525	40.0	40.30	2.870P	2.858	30.700P	2449	2449	1456.9C	148	30	3450
1525	50.0	50.40	3.170P	3.167	30.960P	2468	2468	1458.7C	182	46	3277
1525	60.0	60.50	1.260P	1.257	31.730P	2543	2543	1451.5C	211	62	2559

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	3.310	3.310	30.420	2423	2423	1457.7	0	0	3696
	9.9	10.0	3.310W	3.309	30.410W	2423	2423	1457.9A	37	2	3703
	19.8	20.0	3.300W	3.299	30.400W	2422	2422	1458.0W	74	8	3710
	29.8	30.0	3.233W	3.231	30.438A	2426	2426	1457.9A	111	17	3676
	49.6	50.0	3.195D	3.192	30.950A	2467	2467	1458.8A	181	45	3289



## CRUISE NUMBER 71038 STATION NUMBER 043

LAT	N47 11.00	YEAR	1971	WAVE-P/H	06	WIND-DIR	140	WM	21	COUN	18
LONG	W 63 10.00	MONTH	11	SWEL-P/H	06	WIND-SPD	13	CLD-A'	8	INST	10
DEPTH	65.0	DAY	26	SWEL-D	110	AIR-TEM	4.4			RESTR	
MARSD	SQ 151	H/M	1933	BARO	999.8	WET-BLB				UNAS	046

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1933	0.0	0.0C	4.320P	4.320	31.810P	2524	2524	1463.9C	0	0	2734
1933	5.0	5.0C	4.320P	4.320	31.810P	2524	2524	1464.0C	14	0	2735
1933	10.0	10.1C	4.320P	4.319	31.820P	2525	2525	1464.1C	28	1	2727
1933	15.0	15.1C	4.320P	4.319	31.810P	2524	2524	1464.2C	41	3	2735
1933	20.0	20.2C	4.320P	4.319	31.810P	2524	2524	1464.2C	55	6	2736
1933	25.0	25.2C	4.320P	4.318	31.810P	2524	2524	1464.3C	69	9	2736
1933	30.0	30.2C	4.320P	4.318	31.810P	2524	2524	1464.4C	83	13	2736
1933	40.0	40.3C	4.200P	4.197	31.820P	2526	2526	1464.1C	110	23	2718
1933	50.0	50.4C	1.900P	1.898	32.150P	2572	2572	1454.7C	136	34	2280
1933	60.0	60.5C	1.350P	1.347	32.810P	2629	2629	1453.4C	156	46	1743

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	4.320	4.320	31.810	2524	2524	1463.9	0	0	2734
	9.9	10.0	4.320W	4.319	31.820W	2525	2525	1464.1A	28	1	2727
	19.8	20.0	4.320W	4.319	31.810W	2524	2524	1464.2W	54	6	2736
	29.8	30.0	4.320W	4.318	31.810W	2524	2524	1464.4A	82	13	2736
	49.6	50.0	1.958B	1.956	32.131A	2570	2570	1454.9A	135	34	2299

## CRUISE NUMBER 71038 STATION NUMBER 044

LAT	N46 43.00	YEAR	1971	WAVE-P/H	06	WIND-DIR	140	WW	02	COUN	18
LONG	W 62 00.00	MONTH	11	SWEL-P/H	06	WIND-SFD	13	CLD-A	8	INST	10
DEPTH	98.0	DAY	27	SWEL-D	110	AIR-TEM	4.4			RESTR	
MARSU SQ	151	H/M	0130	BARO	999.8	WET-BL				UNAS	047

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0130	0.0	0.00	5.250P	5.250	29.750P	2352	2352	1465.1C	0	0	4378
0130	5.0	5.00	5.250P	5.250	29.750P	2352	2352	1465.1C	22	1	4378
0130	10.0	10.10	5.250P	5.249	29.750P	2352	2352	1465.2C	44	2	4378
0130	15.0	15.10	5.250P	5.249	29.750P	2352	2352	1465.3C	66	5	4378
0130	20.0	20.20	5.250P	5.249	29.760P	2353	2353	1465.4C	88	9	4371
0130	25.0	25.20	5.100P	5.098	29.800P	2358	2358	1464.9C	110	14	4326
0130	30.0	30.20	4.900P	4.898	29.980P	2374	2374	1464.4C	131	20	4171
0130	35.0	30.20	4.860P	4.857	30.000P	2376	2376	1464.4C	173	35	4152
0130	40.0	40.30	4.860P	4.857	30.000P	2376	2376	1464.4C	173	35	4152
0130	45.0	50.40	4.520P	4.517	30.230P	2397	2397	1463.5C	214	54	3947
0130	75.0	75.60	2.280P	2.276	30.830P	2464	2464	1455.0C	305	112	3308
0130	95.0	95.70	1.960P	1.955	30.950P	2476	2476	1454.1C	371	169	3195

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	5.250	5.250	29.750	2352	2352	1465.1	0	0	4378
	9.9	10.0	5.250W	5.249	29.750W	2352	2352	1465.2W	44	2	4378
	19.8	20.0	5.250W	5.249	29.760W	2353	2353	1465.4A	87	9	4371
	29.8	30.0	4.906A	4.904	29.974A	2373	2373	1464.4W	130	20	4176
	49.6	50.0	4.539A	4.536	30.221A	2396	2396	1463.5W	212	53	3956
	74.4	75.0	2.312C	2.308	30.818B	2463	2463	1455.1A	303	110	3318

## CRUISE NUMBER 71038

## STATION NUMBER 045

LAT	N47 15.00	YEAR	1971	WAVE-P/H	06	WIND-DIR	220	WW	02	COUN	18
LONG	W 59 50.00	MONTH	11	SWEL-P/H	06	WIND-SPD	18	CLO-A	8	INST	10
DEPTH	457.0	DAY	27	SWEL-D	220	AIR-TEM	0.6			RESTR	
MARSD	SQ 150	H/M	0927	BARO	1000.7	WET-BLB				UNAS	003

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
0927	0.0	0.0C	4.310P	4.310	31.450P	2496	2496	1463.4C	0	0	3005
0927	5.0	5.0C	4.310P	4.310	31.470P	2498	2498	1463.5C	15	0	2990
0927	10.0	10.1C	4.310P	4.309	31.470P	2498	2498	1463.6C	30	2	2990
0927	15.0	15.1C	4.310P	4.309	31.480P	2498	2498	1463.7C	45	3	2983
0927	20.0	20.2C	4.310P	4.309	31.490P	2499	2499	1463.8C	60	6	2976
0927	25.0	25.2C	4.310P	4.308	31.500P	2500	2500	1463.9C	75	10	2968
0927	30.0	30.2C	4.310P	4.308	31.540P	2503	2503	1464.0C	90	14	2939
0927	40.0	40.3C	4.260P	4.257	31.580P	2507	2507	1464.0C	120	24	2904
0927	50.0	50.4C	3.850P	3.847	31.680P	2519	2519	1462.6C	148	38	2791
0927	75.0	75.6C	1.230P	1.227	32.660P	2617	2617	1452.9C	207	75	1850
0927	100.0	100.8C	0.800P	0.796	32.890P	2638	2639	1451.7C	250	114	1649
0927	125.0	126.0C	0.980P	0.975	33.160P	2659	2659	1453.3C	289	159	1455
0927	150.0	151.2C	3.000P	2.991	33.620P	2681	2681	1463.2C	324	207	1258
0927	175.0	176.4C	4.620P	4.607	34.100P	2703	2703	1471.1C	353	255	1059
0927	200.0	201.6C	5.270P	5.254	34.340P	2714	2714	1474.5C	378	304	956
0927	250.0	252.1C	5.440P	5.419	34.600P	2733	2733	1476.4C	422	405	788
0927	300.0	302.5C	4.910P	4.886	34.710P	2748	2748	1475.2C	458	507	649
0927	350.0	353.0C	4.880P	4.852	34.780P	2754	2754	1476.0C	490	612	599

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	4.310	4.310	31.450	2496	2496	1463.4	0	0	3005
	9.9	10.0	4.310W	4.309	31.470W	2498	2498	1463.6A	30	2	2990
	19.8	20.0	4.310W	4.309	31.490A	2499	2499	1463.8A	59	6	2976
	29.8	30.0	4.310W	4.308	31.539A	2503	2503	1464.0W	89	14	2940
	49.6	50.0	3.873A	3.870	31.674A	2518	2518	1462.7W	147	37	2798
	74.4	75.0	1.267B	1.264	32.645A	2616	2616	1453.0A	206	74	1864
	99.2	100.0	0.804B	0.800	32.882A	2637	2638	1451.7A	249	113	1655
	124.0	125.0	0.941C	0.937	33.146A	2658	2658	1453.1A	288	157	1463
	148.8	150.0	2.913B	2.904	33.598A	2680	2680	1462.8A	322	205	1267
	173.6	175.0	4.553B	4.540	34.075B	2702	2702	1470.8A	352	252	1070
	198.4	200.0	5.247C	5.232	34.328A	2713	2713	1474.4A	377	301	962
	223.2	225.0	5.520E	5.501	34.493C	2723	2723	1476.1A	399	350	873
	247.9	250.0	5.448B	5.427	34.592A	2732	2732	1476.4A	420	401	794
	297.5	300.0	4.925A	4.901	34.706A	2747	2747	1475.2A	456	502	654

CRUISE NUMBER 71038

STATION NUMBER 046

LAT	N+7	5.00	YEAR	1971	WAVE-P/H	06	WIND-DIR	270	WW	02	COUN	18
LONG	W 60	0.00	MCNTH	11	SWEL-P/H	06	WIND-SPD	15	CLO-A	7	INST	10
DEPTH		294.0	JAY	27	SWEL-D	270	AIR-TEM	1.1			RESTR	
	SJ	151	H/M	1139	BARO	1001.3	WET-BLB				UNAS	002

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGFT	SOUND	GEOA	CHI	SVA
1139	0.0	0.00	4.990P	4.990	30.390P	2405	2405	1464.8C	0	0	3869
1139	5.0	5.00	4.980P	4.980	30.400P	2406	2406	1464.9C	19	0	3861
1139	10.0	10.10	4.980P	4.979	30.420P	2408	2408	1465.0C	39	2	3846
1139	15.0	15.10	4.980P	4.979	30.420P	2408	2408	1465.1C	58	4	3847
1139	20.0	20.20	4.960P	4.959	30.450P	2410	2410	1465.1C	78	8	3822
1139	25.0	25.20	4.900P	4.898	30.450P	2411	2411	1464.9C	97	12	3817
1139	30.0	30.20	4.750P	4.748	30.520P	2418	2418	1464.5C	116	18	3749
1139	40.0	40.30	4.130P	4.127	30.960P	2459	2459	1462.6C	152	31	3359
1139	50.0	50.40	3.530P	3.527	31.830P	2534	2534	1461.4C	182	45	2650
1139	75.0	75.60	1.600P	1.596	32.580P	2609	2609	1454.4C	238	80	1934
1139	100.0	100.80	0.200P	0.196	32.920P	2644	2644	1449.0C	282	119	1594
1139	125.0	126.00	2.090P	2.083	33.170P	2652	2652	1458.2C	321	165	1523
1139	150.0	151.20	3.300P	3.290	33.790P	2691	2692	1464.7C	355	212	1157
1139	175.0	176.40	3.800P	3.788	34.030P	2706	2706	1467.6C	383	258	1027
1139	200.0	201.60	4.340P	4.325	34.230P	2716	2716	1470.5C	407	305	934
1139	250.0	252.10	5.320P	5.299	34.690P	2741	2742	1476.0C	449	401	706
1139	280.0	282.30	4.910P	4.887	34.850P	2759	2759	1475.1C	468	452	543

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGFT	SOUND	GEOA	CHI	SVA
	0.0		4.990	4.990	30.390	2405	2405	1464.8	0	0	3869
	10.0		4.980W	4.979	30.420W	2408	2408	1465.0A	39	2	3846
	20.0		4.961W	4.960	30.449W	2410	2410	1465.1W	77	8	3823
	30.0		4.758A	4.756	30.517W	2418	2418	1464.5A	115	18	3753
	50.0		3.556A	3.553	31.799B	2531	2531	1461.5A	181	44	2676
	75.0		1.640A	1.636	32.567A	2608	2608	1454.5A	237	79	1947
	100.0		0.201D	0.197	32.911A	2643	2643	1449.0A	281	118	1600
	124.0		2.028B	2.021	33.154A	2651	2651	1457.9A	320	163	1531
	148.8		3.258A	3.248	33.769A	2690	2691	1464.5A	354	210	1169
	173.6		3.771A	3.759	34.018A	2705	2705	1467.4A	382	255	1033
	198.4		4.306A	4.292	34.217A	2715	2715	1470.3A	406	302	940
	223.2		4.819E	4.801	34.434B	2727	2727	1473.1A	428	349	835
	248.0		5.319C	5.298	34.674A	2740	2741	1475.9A	447	397	717



CRUISE NUMBER 71038

STATION NUMBER 047

LAT	N46 55.00	YEAR	1971	WAVE-P/H	06	WIND-DIR	270	WW	02	COUN	18
LONG	W 60 11.00	MONTH	11	SWEL-P/H	06	WIND-SPD	15	CLD-A	7	INST	10
DEPTH	75.0	DAY	27	SWEL-D	270	AIR-TEM	1.1			RESTR	
MARSD SQ	151	H/M	1312	BARO	1001.3	WET-BLB				UNAS	001

## O B S E R V E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
1312	0.0	0.00	4.910P	4.910	30.570P	2420	2420	1464.7C	0	0	3726
1312	5.0	5.00	4.900P	4.900	30.580P	2421	2421	1464.8C	19	0	3718
1312	10.0	10.10	4.840P	4.839	30.670P	2429	2429	1464.7C	37	2	3644
1312	15.0	15.10	4.860P	4.859	30.650P	2427	2427	1464.9C	56	4	3662
1312	20.0	20.20	4.840P	4.839	30.670P	2429	2429	1464.9C	74	8	3645
1312	25.0	25.20	4.730P	4.728	30.760P	2437	2437	1464.6C	92	12	3566
1312	30.0	30.20	4.700P	4.698	30.790P	2440	2440	1464.6C	110	17	3541
1312	40.0	40.30	4.700P	4.697	30.790P	2440	2440	1464.8C	146	30	3542
1312	50.0	50.40	4.690P	4.686	30.800P	2441	2441	1464.9C	182	46	3534
1312	70.0	70.50	2.000P	1.996	32.480P	2598	2598	1456.0C	238	80	2037

## I N T E R P O L A T E D

GMT	DEPTH	PRESS	TEMP	POT. T	SAL	SGMT	SGPT	SOUND	GEOA	CHI	SVA
	0.0	0.0	4.910	4.910	30.570	2420	2420	1464.7	0	0	3726
	9.9	10.0	4.840A	4.839	30.669A	2429	2429	1464.7W	37	2	3645
	19.8	20.0	4.841W	4.840	30.669W	2429	2429	1464.9W	73	8	3647
	29.8	30.0	4.701W	4.699	30.789W	2440	2440	1464.6W	109	17	3541
	49.6	50.0	4.690W	4.692	30.800W	2441	2441	1465.0A	181	45	3539



REFERENCES

- Brown, N.L., and B.V.  
Hamon, 1961
- An Inductive Salinometer, Deep-Sea Research, Vol. 8, No. 1, pp. 65-75.
- Rattray, M. 1962
- Interpolation Errors and Oceanographic Sampling. Deep-Sea Research, Vol. 9, pp. 25-37.
- Reiniger, R.F. and  
C.K. Ross. 1968
- A Method of Interpolation with Application to Oceanographic Data. Deep-Sea Research Vol. 15, pp. 185-193.
- Sweers, H.E. 1970
- OCEANS IV: A Processing, Archiving and Retrieval System for Oceanographic Station Data M.S. Rept. No 15, Marine Sciences Branch, Dept. Energy. Mines and Resources. 137 pp.





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